Mechanical Engineers

M. D. Anders

2550 N. Alafaya Tr. #6200
Orlando, FL 32826
(321)235-6213
malitadanders@yahoo.com

Objective Enthusiastic person seeking to utilize a Mechanical Engineering background in an alternative career that requires creative abilities to bring cutting edge products to market.

Summary Project oriented Mechanical Engineering major with research experience, which has allowed practice in motivating others and creating excellent group rapport.

Education

University of Central Florida
Bachelors of Science
Mechanical Engineering
1998- May 2003
Passed EIT Fall 2002

Technical Skills Pro Engineer, AutoCAD, MatLAB, MathCAD, IDEAS, Microsoft Package, Technical Writing, Technical Presentations.

Experience

8/2002-Present **Society of Automotive Engineers, Formula SAE**
Senior Design. Yearlong project with Society of Automotive Engineers. Designed and manufactured vehicle body components, utilizing composite materials at Gunnar Racing, West Palm Beach, FL. Also assembled the FSAE Cost report for the 2003 season and placed 28th out of over a hundred entries.

Summer 2001 **Research Experience for Undergraduates**
Program at the State University of New York at Buffalo sponsored by the Nation Science Foundation and the Multidisciplinary Center for Earthquake Engineering Research. Researched base isolation and acoustic damping devices and presented results at REU Symposium in Salt Lake City, Utah.

August 1999-Present **University of Central Florida**
Dean's Office, College of Engineering and Computer Science, secretarial work.
Material Characterization Facility, observed new sample preparation methods, and secretarial work.
Teaching Incentives Program Committee Member, worked with professors reviewing applications and selecting a winner. (Only student committee member)

Extra Curricular Activities

American Society of Mechanical Engineers, *Secretary*
Dean's Student Advisory Council, *President*
Society of Automotive Engineers, *Member*
Society of Women Engineers, *Member*

JEREMY D. BAILEY

Current Address:
1925 8th Avenue
Apartment 8H
Tuscaloosa, Alabama 35401
(205) 522-2032
baile042@bama.ua.edu

Permanent Address
705 Dogwood Trail
Jasper, Alabama 35504
(205) 221-4403

Objective To contribute to the growth and development of a company through an entry level position in engineering.

Education

Bachelor of Science: Mechanical Engineering
Minor: Mathematics
The University of Alabama, Tuscaloosa, Alabama
Expected Graduation: May 2004
Cumulative GPA: 3.16/4.0
Senior design project: Mechanical riding toy for limited mobility child.
Passed the Fundamentals of Engineering Exam, Spring 2003

Bevill State Community College, Jasper, Alabama
Related coursework included a strong emphasis in mathematics, physics, chemistry, and engineering science.

Experience

Engineering Intern, Summer 2003
Johnson Controls, Inc., Cottondale, Alabama
Worked in Automotive Systems Group as part of design team in both current and future production. Contributed to redesign and testing of parts for company cost savings. Helped in planning and managed launch of new innovative products. Contributed to problem solving solutions of current production issues. Tested and documented various areas of concern in current production products. Conducted buzz, squeak, and rattle tests on seats to identify problem areas. Learned to use Faro arm in process of H-point. Tracked costs of tooling changes for future production door panels. Tracked and maintained changes to bill of materials for future production door panels. Attended Geometric Dimensioning and Tolerancing (GD&T) classes.

Engineering Intern, Summer 1999
Department of Energy, Oak Ridge National Laboratory, Oak Ridge, Tennessee.
Worked in Engineering Technology division with nuclear facility hazard analysis team. Constructed and modified facility models for hazard analysis computer programs. Wrote formal reports and gave formal presentations on scope of work. Independently researched various topics regarding engineering of nuclear facilities. Collaborated with other interns on various engineering problems.

Head Customer Service Representative, Spring 98-Summer 01
Blockbuster Video, Jasper, Alabama
Worked as part of management team. Assigned and supervised various tasks. Accounted for all money. Noted and solved problems related to customer service.

Computers Matlab, some Maple, 2D and 3D AutoCAD, BRL-CAD, some Catia, MS Word/Excel/Powerpoint, Windows 95/98/2000, C programming, Netscape Navigator, Microsoft Internet Explorer

Leadership

Bevill State Community College Ambassador
Recruited students. Served as host to alumni and community leaders.

Bevill State Community College Scholar Bowl
Competed in various state and regional tournaments.

American Society of Mechanical Engineers

Society of Automotive Engineers (SAE)
Helped SAE mini-baja team design stands for competition
Currently designing 2004 Formula SAE car.

American Society of Heating, Refrigerating, and Air-Conditioning Engineers

References Available upon request

STEPHEN S. BEAMS

13726 Apple Lane
Northport, AL 35475
(205) 339-8627
beams001@bama.ua.edu

OBJECTIVE

To obtain an entry level position in industry as a mechanical engineer with an emphasis on design.

EDUCATION

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, Alabama
Expected Graduation: May 2003
Cumulative GPA 3.23/4.00; ME GPA 3.59/4.00
Passed Fundamentals of Engineering Exam in Fall 2002
Senior Design Project 1: Disabled children's lift
Senior Design Project 2: Federal Railway Administration LED signal testing in progress

EXPERIENCE

Engineering Aide, Spring 2001 to present
U.S. Army Corps of Engineers, Tuscaloosa Site Office, Tuscaloosa, Alabama

Maintain, modify and create CAD drawings using MicroStation SE. In charge of scanning old hardcopy drawings into manageable digital files. Created digital database of all lock and dam maintenance drawings and placed them on CDs for easy viewing and printing by field personnel. Currently creating Dredge Disposal database showing all approved dredge disposal sites to be put on CD for field personnel. Backup files onto CDs for office personnel and assist with minor computer problems. Assist Co-ops by preparing drawings and databases for them to use in the Corps' GIS. Perform area and volumetric calculations for dredge cuts and disposal. Perform tasks as assigned by office personnel.

Mechanical Engineering Co-op, Summer 1999, Spring and Fall 2000
American Cast Iron Pipe Company, Birmingham, Alabama

Assisted in maintaining database on water in supply air by collecting data from air lines around plant using a temperature and moisture probe. Designed a crane bump stop for loading and unloading scrap boxes off of railcars. Created charts and graphs for engineers to use in meetings. Helped keep up with employee time and issue replacement tools. Assisted work crews in mill changeovers.

Delivery Man and Stocker, Fall 1999
HASCO, Tuscaloosa, Alabama

Unloaded and stocked heating and air-conditioning supplies. Kept up with inventory of HVAC units and fittings. Delivered compressors, propane tanks, filters and other HVAC supplies. Assisted with office records.

Computers, DOS, Windows 95/98/2000/NT, AutoCAD, MicroStation SE, FORTRAN, Matlab, Adobe Acrobat, Microsoft Word, Excel, Access, PowerPoint, Outlook

ACTIVITIES

Member of Pi Tau Sigma National Mechanical Engineering Honor Society
Member of American Society of Mechanical Engineers
Member of American Society of Heating, Refrigeration and Air-Conditioning Engineers

REFERENCES

Available upon request

Umangi P. Bhatt

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Baltimore, MD 21236
Home: (410) 529-7031/ Cell: (410) 812-2780
ubhatt1@gl.umbc.edu

OBJECTIVE:

To obtain a challenging position for further growth of my knowledge and experiences in the field of Mechanical Engineering

EDUCATION:

University of Maryland, Baltimore County
Candidate for B.S. degree in Mechanical Engineering, December, 2004

RELEVANT COURSEWORK:

Calculus I, II, III, Differential Equations
Physics I, II with Calculus
Engineering Statics
Engineering Dynamics
Engineering Mechanics
AutoCAD and Design

COMPUTER SKILLS:

Microsoft Office
AutoCAD
ProEngineer

WORK EXPERIENCE:

June 2003-August 2003: Engineering Technician summer intern
U.S. Department of Homeland Security- U.S. Coast Guard, Glen Burnie, MD

- Designed AutoCAD drawings of Electrical Systems of various Coast Guard vessels
- Transformed paper based circuit system diagrams to digital format through AutoCAD
- Compiled technical manual of vessel parts and systems
- Toured Coast Guard ships to gain better practical understanding of mechanical and electrical systems

September 2001-August 2003: Commuter Assistant
University of MD, Baltimore County , Catonsville, MD

- Coordinated programs/events for off campus students to connect to campus life
- Organized study and social groups for students living off campus
- Assisted transfer & new students in transitioning to campus life

May 2001-August 2001; June 2000-August 2000: Human Resources summer intern
Baltimore Gas & Electric Co., Baltimore, MD

- Led employee orientation programs through slide presentations to new staff
- Converted applicant data to digital format using Microsoft Excel Spreadsheet
- Assisted supervisors with college recruitment process and job fairs at several universities

ACADEMIC HONORS/AWARDS:

-Baltimore County Minority Council Scholarship to UMBC from Baltimore Gas & Electric Co.
-Resident Assistant for UMBC Off-Campus students
-Recipient of over 20 dance awards from local & national classical dance competitions

MEMBERSHIPS/ACTIVITIES:

-Member, Society of Women Engineers
-Student Representative for UMBC Provost's student advisory committee
-Volunteer as UMBC freshman orientation leader
-Choreographer of UMBC dance team for South Asian Student Association

RÉSUMÉ

MUNIDHAR S. BIRUDUGANTI

Permanent Address:
319 Grace Street Apt# 16
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Email: birud001@bama.ua.edu
Phone: (205) 657-7776

School Address:
The University of Alabama
Department of Mechanical Engineering
Box870276, Tuscaloosa, AL 35487-0276
Phone: (205) 348-1637

OBJECTIVE

To obtain an entry level position in **Internal Combustion Engines** or related field

EXPERIENCE

- **Graduate Research Assistant** in Internal Combustion Engines Laboratory (**UA**)
  Responsibilities include:
  - Planning, documenting, coordinating test procedures.
  - Obtaining and documenting test data.
  - Data analysis and interpretation of Performance Characteristics for a pilot-ignited natural gas engine.
  - Implementation of optimized combustion strategies for good performance and reduced emissions for a CAT 3401 engine.

- **Summer Internship** (May-Sept 2001). Worked in the Combustion and Emissions group, Engineering Technologies Department, **Detroit Diesel Corporation**.
  Contribution involved:
  - Development of analytical tools for data reduction, processing and analysis of raw data for project engineers.
  - Determining the critical modes of engine operation.
  - Implementing troubleshooting techniques in the test cells.
  - Heat release analysis from in-cylinder pressure data.
  - Comparing different engine calibrations and injector performance.
  - Experience in both transient and steady state mode FTP cycles.

- **Graduate Teaching Assistant** in Mechanics of Materials Lab (Spring 2000).

PUBLICATIONS

"Performance and Heat Release Analysis of a Pilot-ignited Natural Gas Engine". S.R. Krishnan, **M. Biruduganti**, Y. Mo, S.R. Bell, K.C. Midkiff. Submitted to the *International Journal of Engine Research.*

EDUCATION

- **The University of Alabama**, Tuscaloosa, AL
  Master of Science, Mechanical Engineering, Dec 2001
  Specializing in Internal Combustion Engines (GPA 3.25)
- **Andhra University,** Visakhapatnam, India
  Bachelor of Science in Mechanical Engineering, June 1999

THESIS (M.S.)

"Effect of fuel injection timing and pilot quantity on performance of a dual fuel engine"

RELATED GRADUATE COURSES

- Principles of Combustion
- Classical Thermodynamics
- Intermediate Heat Transfer
- Internal Combustion Engines

ACADEMIC PROJECTS

- Thermodynamics: Design of combined cycle power plant
- Heat Transfer: Interaction of thermal radiation with natural convection from a vertical cylinder

COMPUTER SKILLS

- Programming Languages: C++, Visual Basic, DBMS
- Operating Systems: Windows NT and DOS
- Engineering Packages: LABVIEW, GRAPHER, CREST, CHEMKIN

REFERENCES

- Prof. Stuart R. Bell, Ph.D., P.E.
  Head of Department of Mechanical Engineering
  The University of Alabama

- Prof. Kenneth C. Midkiff, Ph.D.
  Department of Mechanical Engineering
  The University of Alabama

- Mr. Brian Bolton
  Manager, Combustion and Emissions Group (ET)
  Detroit Diesel Corporation

BRADLEY T. BOYER

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Permanent Address
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Birmingham, AL 35243
(205) 967-4763

EDUCATION

Bachelor of Science: Mechanical Engineering and German with Minor in Mathematics
University of Alabama, Tuscaloosa, AL — expected graduation date- May 2004
Cumulative GPA: 4.0/4.0
Worked to design and build a battery-powered ride on toy for disabled children.
Study Abroad – Fachhochschule (University of Applied Sciences) Augsburg, Germany — 2002-2003
TIDE Program-Integrated Engineering Program 1999-2001 including design work for the Alabama Volleyball Program
Jefferson State Community College – One semester of Microcomputer Applications — Summer 1997
International Baccalaureate Diploma – Internationally recognized college level Diploma for High School students. — 1999

EXPERIENCE

CAD Design and Drafting March-July 2003 — **KUKA Schweissanlagen GmbH - Augsburg, Germany**
Worked closely with engineers in the design department to develop 3D and 2D designs and drawings for welding equipment for automobile production lines. CATIA was used extensively along with a limited amount of AutoCAD.

Math/Science Tutor 2002-2004 — **Smart Minds Learning Center – Tuscaloosa, AL**
Tutored and taught High School Math and Science, including Geometry, Trigonometry, Algebra, and Physics, in a one on one atmosphere.

Engineering Intern Summer 1999 — **Lucas Engineers Inc. - Birmingham, AL**
Worked with land surveying crew to collect data. Developed 3 dimensional maps of Cleveland, Alabama using Microstation for the design of a new sewer system. Maintained computer network and workstations.

Camping and Climbing Instructor Summer 2000, 2001 — **Camp Cobbossee - Winthrop, ME**
Worked 2 months as head of camping and tripping staff. Planned and lead 2-3 day trips out of camp with up to 30 boys and 10 counselors. Staff Instructor for Rock Climbing wall. Taught ages 7 to 45.

Research 1997-98 — **UAB Hypertension Research - Birmingham, AL**
Researched effects of certain free radicals on calcium influx pathways of rat smooth muscle cells, including cell culture and spectrophotometer techniques. Used cell cultures and blood vessels from rats to test muscle contraction.

Computers Skills: AutoCAD, Microstation, NASTRAN, CATIA, MS Word, MS Excel, MS PowerPoint, Lotus 123, Matlab, Windows, SUN Microsystems, Maple, Internet

HONORS/ACTIVITIES

Tau Beta Pi - Secretary
Formula SAE Team – Head of Analysis/Testing
American Society of Mechanical Engineers
Pi Tau Sigma – ME Honorary Fraternity
Phi Kappa Phi Honor Society
Golden Key International Honor Society
ACECA Groenendyke Scholarship Winner
Tau Beta Pi Scholar

National Merit Scholar– Presidential Scholarship
Outstanding Junior Engineering Student
Outstanding Sophomore Engineering Student
President's List
Mallet Assembly (Men's Honor Society)
European Language Certificate in German- Level B1
SAE/MBUSI Scholarship
ASME John and Elsa Gracik Scholarship

Victory Assembly of God Praise Team – Tuscaloosa AL
Assistant Scoutmaster BSA Troop 213, Eagle Scout 1999

University of Alabama Percussion Ensemble
Intramural Athletics for the Mallet Assembly

References Available upon request

BRETT CHANDLER BROCATO
(910) 616-5289
brettbrocato@hotmail.com

EDUCATION

B.S. Mechanical Engineering, minor Computer Based Honors, University of Alabama
1999

ENGINEERING EXPERIENCE

Corning Optical Fiber, Wilmington, North Carolina March 2001-June 2002
Mechanical Engineer, Packaging
- Test packaging modifications and manufacturing operations
- Design a fixture for packaging operations

Mechanical Engineer, Fibermaking Equipment
- Mechanical Lead, Machine One Build Team (for a new fibermaking system)
  - Serve as liaison between the equipment vendor and the design team
  - Provide technical support to the vendor

Bell Helicopter Textron, Fort Worth, Texas
Engineer, Cost Analysis *Feb. 2000-Feb. 2001*
- Estimate recurring and non-recurring cost of helicopters and tiltrotors
- Generate and submit cost improvement proposals and perform design trade studies

TRW Vehicle Safety Systems, Mesa, Arizona
Manufacturing Engineering Intern *1998, one semester*
- Re-design details of multiple stations on an assembly line due to a part change.
- Concept and design automated stations for post-design-change production ramp-up.

TRW Vehicle Safety Systems/Louisville Tool & Die, Louisville, Mississippi
Manufacturing Engineering Intern *1997, two semesters*
- Coordinate details of new seat belt retractor assembly line
  - Develop detail drawing packages from customer assembly drawings
  - Procure and expedite purchased components and outside tooling
- Member of design team for multiple automated assembly fixtures and one forming/assembly fixture

James River Corporation, Pennington, Alabama
Capital Project Engineering Intern *1995-96, two semesters*
- Manage facilities projects ranging from $5,000 to $246,000 at a pulp and paper mill
- Analyze bids for a mill-wide services contract as a member of the project team

Irby Construction Company, Jackson, Mississippi
Drafting Technician (AutoCAD) *1994, one semester*

Computer Based Honors Program, University of Alabama *1993-98*
- Learn multiple programming languages and operating systems, perform faculty-directed computer research projects in a team environment
- Technologies: VB, Fortran, C, COBOL, Authorware, GUI, CAI
- Compose and present three or more multimedia briefings per semester to the CBH seminar class

EXTRACURRICULAR ACTIVITIES

Phi Sigma Kappa Fraternity, Omicron Deuteron Chapter *1993-1998*
Chapter President 1998; previously Secretary, alumni chair; community work, intramural sports

Meredith Reid Brooks

School Address
1609 Highland Ave, Apt 1
Troy, NY 12180
(518) 727-1703

Email: brookm@rpi.edu

Permanent Address
38 Boylston Ave.
Princeton, MA 01541
(978) 464-2001

Objective	A full time position starting in the summer of 2004 that would utilize and develop my skills and knowledge as a Mechanical Engineer, Product Designer, and Social Scientist.
Education	Rensselaer Polytechnic Institute, Troy, NY *Senior* Cum. GPA 3.41 ➢ Dual bachelor's degree in Mechanical Engineering and Science, Technology, and Society with a concentration in Product Design ➢ Graduation: May 2004
Work Experience	Bechtel Plant Machinery, Inc., Schenectady, NY Summer 2003 ➢ Project engineer intern responsible for design, procurement and technical services of components. Specific tasks include: review of vendor drawings and procedures, history review of plant components, material review of pumps for proper specification and specification preparation, design thickness calculations of pump components, establishment of testing requirements and cost estimates for comparable RTD products. Extensive communications with customer and supplier personnel. Lutron Electronics Company, Inc., Coopersburg, PA Summer 2002 ➢ Intern on design team responsible for quality testing (mechanical and electrical), design, documentation, cost analysis, manufacturing and development of two new lighting products. Project leader of design team of third dimmer product released in new product line. RPI Office of Professional and Distance Education, Troy, NY Fall 2001-present ➢ Assistant to the Senior Coordinator of Program Operations. Responsibilities include office work, student mailings, database management, and proactive file work. UMass Memorial Health Care, IS Dept., Worcester, MA Winter 2001 ➢ Desktop Technician in Information Systems Department responsible for rewriting computer documentation for healthcare related applications. Bancroft Summer Camp, Worcester, MA Summer 2000-01 & 1997-98 ➢ Counselor and Assistant to the Camp Director before promotion to Director of Activities in addition to other counselor responsibilities. Carpenter's Assistant for Brooks Carpentry, Princeton, MA Summer 1996 ➢ Assistant to general contractor. Designed and built decks and re-sided a house.
Leadership/ Activities	➢ Active member of S.O.L.I.D (Student Organized Leaders of Innovative Design) ➢ Student leader for creative technologies and product design gallery in RPI's Career Development Center ➢ Resident Assistant in co-ed residence hall for first-year students (2002-2003) ➢ Active participant in Professional Leadership Program (2002-2003) ➢ Society of Women Engineers: Officer and Membership Coordinator (2000-2002) ➢ Rensselaer Varsity Collegiate Softball Team (2000-2001)
Computer Skills	➢ Platforms: Windows, Macintosh ➢ Application Software: Microsoft Word, Excel, PowerPoint, Netscape Composer, Hyperstudio ➢ Software Simulation: SolidWorks (CAD), EES ➢ Programming Languages: C
Awards/ Honors	➢ *Architecture For Humanity* design entry selected to be on display in NYC's Van Alen Institute (Mobile HIV/AIDS Health Clinic for Africa) ➢ Member of Pi Tau Sigma – Mechanical Engineering Honor Society ➢ Dean's List 2000-2001, 2001-2002, 2002-2003
Portfolio	➢ http://www.rpi.edu/~brookm/pdimain.html
References	➢ Available upon request

Julia B. Brott

7 Hawthorne Ave.
Troy, NY 12180

Home:(518) 273-3315
Email: brottj3@rpi.edu
United States Citizen

Objective

Obtain a summer internship or co-op that utilizes my skills and educational background in the field of mechanical engineering.

Education

2002-Present — **Rensselaer Polytechnic Institute** (R.P.I.) Troy, NY
B.S. Mechanical Engineering expected in May 2006
Cumulative GPA: 3.32/4.0

1998-2002 — Troy High School Troy, NY
Received High School Regents diploma with high honors

Coursework

Courses Taken (or Currently taking):
Strength of Materials; Thermal and Fluids Engineering; Modeling and Analysis of Uncertainty; Introduction to Engineering Analysis; Engineering Processes; Engineering Graphics and CAD; Computer Science 1; Calculus 1 & 2; Differential Equations; Chemistry of Materials 1 & 2; Physics 1 & 2; Introduction to Science and Technology Studies; Sports Psychology; General Psychology and Sociology.

Skills

Proficient with C++; Minitab Version 12; Solid Works; Windows 95, 98, 2000, and XP; MS-Excel; MS-Power Point; Word; Maple 8.0.

Employment

Sept. 2002-May 2003 — Work-Study at Rensselaer Polytechnic University
Admissions Office
Assisted staff in setting up and organizing applicants' files. Handled on-campus deliveries of documents and files.

Summers of 2001-2003 — Van Schaick Island Country Club Cohoes, NY
Lifeguard and Swimming Instructor; Ground maintenance work; Provided training for new lifeguards; Assisted in various organized events.

Honors/Awards

Emily Roebling Scholarship for Women Engineers
N.Y. Merit Scholarship for Academic Excellence
Dean's List

Activities & Interests

Member, Society of Women Engineers; Member, National Honor Society
R.P.I. Tennis Club; Weekly Community Service relating to religion; Playing Trumpet and Alto Saxophone

Languages

Fluent in American Sign Language; Current independent study of Mandarin

Jason M. Brown
348 Talon Drive
Birmingham, Alabama 35242
(205) 980-7781
jasonmbr2@aol.com

EDUCATION

The University of Alabama, Birmingham, Alabama
Master of Science in Mechanical Engineering, spring or summer 2004/GPA: 3.25
Bachelor of Science in Natural Science and Mathematics/GPA: 3.2
The University of Alabama, Tuscaloosa, Alabama
Bachelor of Science in Chemical Engineering/GPA: 3.0

EMPLOYMENT EXPERIENCE

U. S. Naval Research Laboratory (NRL), Corporate Research & Development Center, Mobile, Alabama
Summer, 2003

Primary responsibility: Augment staff on board the ex-USS SHADWELL by providing current data and recommendations on fire fighting doctrine; passive fire protection; advanced fire suppression systems, shipboard communications, materials and equipment performance; advanced damage control and information management systems, logistics, shipboard design, and proposals for shipboard retrofit or future systems consideration. Many evaluations conducted in conjunction with large shipboard fires. Tasks included: scientific instrumentation installation, documentation, calibration, and repair; use of mathematical, spreadsheet, and word processing software to support projects' scientific and engineering functions; pretest preparation and post-test clean-up; and served as safety watch or data collection assistant during tests. Interfaced daily with full-time and intermittent personnel, including Mechanical, Chemical, and Fire Protection Engineers; Computer Scientists, Professional Naval Officers and enlisted personnel; Electricians, Welders, Machinists, Diesel Engine Mechanics, and Visiting Professors.

Alabama Power, Power Systems and Development Facility, Wilsonville, Alabama
Summer, 2001

Worked in the Research and Predictive Maintenance Department. Responsibilities included updating and expanding the capabilities of the Work Order Management System (WOMS). Also assisted the Predictive Maintenance teams by helping them collect and organize data, as well as direct contractors on several projects involving plant modification. Finally, assisted other mechanical engineers in the collection of data for vibration analysis.

Southeastern Computer Consultants, Inc., Austin, Texas
Summer, 1996

Worked in the Program Design Division. Responsibilities included quality control of projects involving the design of the Patriot Missile Training Module. Daily duties involved developing spreadsheets that monitored each team member's project until completion. Also, regularly attended project review meetings with each team member. These meetings had three goals: 1.) Inform each team member of new errors found in his or her project. 2.) Receive updates on the current status of each project. 3.) Discuss new ways to increase productivity and quality.

COMPUTER EXPERIENCE

Power Point, Word, Excel, MathCAD, CapCost, ChemCAD, Icon Author, Fortran, STELLA, and AutoCAD.

RESEARCH EXPERIENCE

Currently doing post-graduate research with Dr. Stephen McClain, UAB, involving extension of discrete-element model to include randomly-rough surfaces such as those found on high-usage gas turbine blades.

REFERENCES

Mr. Hung Fam
Phone: 251-433-0356
U.S. Naval Research Lab (NRL)

Ms. Jennifer Cox
Phone: 205-824-5944
Power Systems Development Facility (PSDF)
Alabama Power

Ms. Maureen Phillips
Phone: 205-980-2281
Alabama Power

JOHN CAMPBELL

203 Lakeshore Dr.
Muscle Shoals, AL 35661

jcamp772000@yahoo.com
205-462-0474

Objective

A full time position in an engineering facility

Education

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, Alabama
Expected Graduation: May 2004
Overall GPA 2.0/4.0 Mechanical Engineering GPA 2.3/4.0

Northwest Shoals Community College, Muscle Shoals, Alabama
Core Curriculum Coursework, No degree obtained

Student Project

AEM 250 Mechanics of Materials Project
Objective of the project was to calculate the length of joist and headers knowing the maximum deflection allowed over the entire length
ME 350 Projects
Objective of the project was to design a boring bar, and to maximize the internal area for coolant flow.
Objective of the project was to design a pressure vessel hatch that would prevent failure at a given test depth, and determine the size of the fasteners used to attach the hatch.

Experience

Assistant Manager, Wilson's Leather (October 2000-January 2001)
(September 2002-January 2003)

- Provided customer service and presented a clean environment
- Insured all money was accounted for and made nightly deposits
- Assisted in making of work schedule, also was a full time student
- Other miscellaneous management duties

Tutor, Northwest Shoals Community College
(August 2000-May 2001)

Computers

AutoCAD, FORTRAN, Excel, PowerPoint, MatLAB, and Word

Extracurricular

American Society of Mechanical Engineering
Habitat for Humanity

KEVIN EUGENE CASH

Kevin.Cash@ua.edu

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2020 1st Ave.
Tuscaloosa, AL 35401
(205) 242-3841

Permanent Address:
5049 Eagle Crest Rd.
Birmingham, AL 35242
(205) 991-6663

EDUCATION:

University of Alabama – Tuscaloosa, AL

Bachelor of Science: Mechanical Engineering
GPA: 3.05 / 4.0
Major GPA: 3.24 / 4.0
Expected graduation date: *May 2003*

Senior Design 1, Fall 2002 – Design and built a device for children with spina bifida to aid in the task of getting into and out of the wheelchair and the bath tub. This project was completed in December 2002 and will be installed in the subject's home.

Senior Design 2, Spring 2003 – Risk Assessment project for Federal Railroad Administration to analyze accident data and recommend improvements.

EXPERIENCE:

Hoffman Media– Birmingham, AL
June 2001 – August 2001
Helped organize and implement a project to contact over 75,000 subscribers.

Driver's Way– Birmingham, AL
June 2000 – August 2000
Prepared cars for sale.

Movie Gallery– Birmingham, AL
June 1999 – August 1999
Worked in customer service and performed minor custodial tasks.

Lakeside Baptist Church– Birmingham, AL
1994 –1999
Responsible for evening security. Assisted teachers, students, and members with various tasks and/or requests.

AWARDS:

Capstone Scholar
Jim Walters Resources Endowed Scholarship
Franklin Academy Endowed Scholarship
National Society of Collegiate Scholars

ACTIVITIES:

American Society of Mechanical Engineers
Campus Crusade for Christ
Mark's Madness Committee Member
Habitat for Humanity Volunteer Supervisor

COMPUTER EXPERIENCE:

Proficient in: Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Internet Explorer, Netscape Navigator, AUTOCAD
Familiar with: MATLAB

STATE REGISTRATION:

Passed Fundamentals of Engineering Exam

KHAIRUL ALAM CHOWDHURY
1200 University Blvd. Apt.E-8, Tuscaloosa, AL 35401
Phone: (205) 366-8615
Email (preferred): chowd001@bama.ua.edu, masoom92@yahoo.com

OBJECTIVE

Seeking a challenging full time position in Mechanical Engineering in the field of FEA.

TECHNICAL SKILLS

Programming	:	**Fortran90, visual C++**, Pascal, Q-basic,
Structural Analysis Softwares	:	**Abaqus, Ansys5.7, Algor , Nastran, Hypermesh Mathb, Maple 6, Mathcad,Autocad2000, Tecplot, Labview**
OS Platforms	:	DOS, Windows95,Windows99, Win NT, **UNIX**.
Packages	:	MS Word, Excel. Wordperfect, lotus 123, Dbase, MS Powerpoint

WORK EXPERIENCE

Research Assistant, from Jan2001 to present date.
#Developed finite element formulation and necessary Fortran90 code for piezoelectrical thin films, which will be used as sensors and actuators in Gyroscope for low cost navigation (FAA Project). Formulated for static and dynamic analysis and done by 4-Node quad element.
#Developed non-conforming 4-node quadrilateral membrane element by using static condensation.
#Designed Jigs and Fixtures for Piezoelectrically actuated gyroscope.
Teaching Assistant, august 2000-december 2000.
Department of Aerospace Engineering and Mechanics, University of Alabama, Tuscaloosa. Assisted in grading and in teaching Engineering mechanics.
Mechanical engineer: Served as a Mechanical Engineer in a Bangladeshi company.
Responsibilities: 1) Project management: I was responsible for preparation of the project profile which included the feasibility study of project, cost/benefit analysis, developing the prototype, testing. Etc
2) Design: product design, feasibility study, testing
3) Maintenance: Maintenance of machinery, modification of machine parts.

EDUCATION

MS in Engineering Science and Mechanics, **GPA 4.00/4.00**, Expecting graduation: AUG 2002, University of Alabama, Tuscaloosa.
Thesis: A quadrilateral finite element for piezoelectric thin films.

BS in Mechanical Engineering, Sep 1999
Bangladesh University of Engineering and Technology (BUET), Dhaka. *Thesis:* Design and Fabrication of Solar Water Heater using Corrugated sheet as a collector.

KHAIRUL ALAM CHOWDHURY
1200 University Blvd. Apt.E-8, Tuscaloosa, AL 35401
Phone: (205) 366-8615
Email (preferred): chowd001@bama.ua.edu, masoom92@yahoo.com

SELECTED PROJECTS

Master's:
* Project on MEMS manufacturing process and specifying Problem corresponding to Deep Reactive Ion etching and recommended solution.

RELEVANT COURSEWORK

Master's: **Finite element Analysis (FEA)**, MicroElectromechanical systems (**MEMS**), Finite Difference Method in Computational Fluid Dynamics (**CFD**), Matrix and Vector Analysis, Intermediate Dynamics, Experimental Solid Mechanics, Theory of Elasticity, Intermediate fluid mechanics, Partial differential equations.

Bachelor's: Petroleum engg, **Industrial management, Production Planning and control, Production Processes, Machine tools**, Power Plant Engg, Refrigeration and Air Conditioning, **Robotics**, Internal combustion engine, Combustion and pollution, **Metallic Materials, Measurement and quality Control, Instrumentation and Measurement**, Fundamentals of Accounting, ***Fundamentals of Electrical Engg***, ***Electrical and electronics Technology***. Economics, Accounting, Sociology, Numerical Analysis

SUMMARY OF SKILL SET

- Strong mathematical and analytical abilities
- Able to learn and adapt new technologies
- Experiences in team works and as a team leader
- Creative minded and organized
- Quickly perceptive
- Good temperament in any situation
- Enthusiastic about learning

REFERENCES

Dr John Jackson, Professor, AEM, The university of Alabama. Alabama 35487-0280, Ph-205 348 7306, Fax: 205 348 7240.
Dr R K Panday, Associate professor, Department of ECE, the University of Alabama. Tuscaloosa.
Dr A R Sharif. Associate professor, Dept of AEM, The University of Alabama, Tuscaloosa. Alabama 35487-0280, Fax: 205 348 7240.
Dr M E Barkey, Associate professor Dept of AEM, The University of Alabama, Tuscaloosa, Alabama 35487-0280, Fax:205 348 7240.

RICHARD CLAYTON CHRISTESON

Post Office Box 4444
Anniston, Alabama 36204

(256) 282-4780
cchristeson@hotmail.com

CAREER OBJECTIVE

To obtain a career in research and development within the automotive or aerospace industry.

EDUCATION

Bachelor of Science: Mechanical Engineering

The University of Alabama: Tuscaloosa, Alabama
Expected Graduation: December 2004
Cumulative GPA 4.0/4.0 ME GPA 4.0/4.0

Gadsden State Community College: Gadsden, Alabama
Attended: May 2001 – August 2001

EXPERIENCE

Engineering Aid, Cooperative Education Program
Southern Research Institute (Materials Characterization Group): Birmingham, Alabama
August 2001-December 2001, May 2002-August 2002, and January 2003-May 2003

Research and development of thermal and thermal-structural behavior of advanced composite materials used in extreme environments. Fabrication and implementation of thermal instrumentation for rocket motor material simulation. Strong background in mechanical and thermal testing procedures and apparatuses. Interfaced closely with state-of-the-art machine shop determining capabilities and limitations of equipment as they apply to advanced composites. Calculate, organize, and prepare test data for reporting status. Hands-on experience characterizing carbon, silica, glass, and ceramic matrix composite materials. Assisted in numerous failure analysis and material investigations for automotive industry. Strong background in data manipulation and presentation PowerPoint, Excel and AutoCAD.

Life Guard and Swimming Instructor
Etowah County YMCA: Gadsden, Alabama
May 2001-August 2001

Insure the safety of YMCA patrons. Maintain chemical balances within pool system. Clean and maintain aquatics facility. Help initiate swimming lesson services to community.

COMPUTER SKILLS

Microsoft Windows (95-XP), Microsoft Office (Excel, Word, Power-Point), Microsoft Internet Explorer, Netscape Navigator, Maple, MATLAB, Auto Cad, and some experience with Lab View and Visual Basic

HONORS / ACTIVITIES

President's List (Fall 2000 – present)
National Society of Collegiate Scholars
University of Alabama Capstone Scholar
Tau Beta Pi Outstanding Sophomore and Senior Engineering Award
Treasurer: Society of Automotive Engineering (2003-2004)

American Society of Mechanical Engineering Member
Golden Key National Honor Society
Air Force ROTC (Fall 2000 – Spring 2001)
Member Phi Kappa Phi
Member Tau Beta Pi

REFERENCES

Available upon request.

Terry Colburn

10566 Old Greensboro Road * Tuscaloosa, AL * 35405

Contacts: (H) (205) 344-6649 * (C) (205) 657-2403 * (E-mail) tcolburn10566@charter.net

Mechanical Engineer

Education

B.S., University of Alabama
Major: Mechanical Engineering
GPA (Cumulative): 3.5 / 4.0
FE Licensed

Special Projects:

- Lift Assist Device for Spina Bifada client
- Ball, Roller, and Journal Bearing research
- Risk Assessment Study of Gulf Coast Corridor High Speed Rail System

Professional Experience

Michelin North America, Inc Tuscaloosa, Alabama 35401 January 1986 – Present

Production Team Leader

- Developed spreadsheet detailing personnel placement during times of production flow changes
- Assist department supervisor and maintenance workers in finding causes of mechanical failures
- Responsible for training new personnel regarding tire classification system and the proper way to enter computer data for diagnostics

Quality Assurance Technician

- Responsible for the classification of tires and computer data entry of specific problems
- Communicate quality issues to supervisor as well as other production team members
- Assist in tracking possible causes of tire defects to avoid further occurrences

Absentee Replacement

- Assisted supervisor with tire flow and substituted for absent personnel
- Experienced operator of computerized components of the department

Phifer Wire Tuscaloosa, Alabama 35401 May 1983 – 1986

Creel Organizer

- Developed creel organizational standards for new product lines
- Provided training for new employees regarding creel organization and inventory

Additional Experience

Subcontracted personal home

- Responsible for budget analysis involving cost of materials and labor costs
- Negotiated labor contracts and insured proper licensing of contractors
- Responsible for scheduling subcontractors and insuring the availability of materials
- Communicated with local building inspectors to insure code compliance

Computer Skills

Microsoft Office, Windows, Linux, Fortran, AutoCAD, Dos, Corel Office Suite, Networking, Programmable Logic Control, Maple, Matlab, upgrades, computer maintenance, trouble-shooting

Awards/Societies

Outstanding Achievement Award for Pre-Calculus Studies, Outstanding Achievement Award for Chemistry, Pi Tau Sigma (Engineering Honor Society), Golden Key National Honor Society, Phi Theta Kappa Honor Society, Leo Sumner Award Finalist, James B. Allen Award Winner

Begonia 548 Loiza Valley
Canóvanas, P.R. 00729

Home: (787) 876-2424
Mobile: (787) 564-6923

nvanesa@yahoo.com

Nery V. Estrella Colón

Objective

A summer internship in an organization that can provide me a challenge and an opportunity for professional growth.

Experience

June 2003 — US Army Corps of Engineers, Nashville TN

Mechanical Engineer - Student Trainee
Supervisor: Mark Kuhlo
Working for the Electrical/Mechanical Design Branch of the Nashville district, I conduct research, develop drawings, perform calculations, conduct field inspections at District projects, conduct testing, and develop preliminary designs for the mechanical as well as the electrical components of the navigation locks for the Tennessee and Cumberland rivers. Worked designing the tow haulage unit for the New Chickamauga lock.

January 2003 — University of Puerto Rico, Mayagüez Campus

Undergraduate Research "Compose materials with metallic matrix"
Advisor: Prof. O. Marcelo Suarez
Use of composite materials to maximize the absorption of energy in guardrails.

2002-2003 — University of Puerto Rico, Mayagüez Campus

Undergraduate Research "Influence of different fluids on the stability of Beams-Columns"

Advisor: Prof. Vijay Goyal
An analytical as well as finite element model is being developed to take in account the different fluids that interact with structures; such applications are found in human bones, bridges, aerospace structures among others.

August 2001 and 2002 — University of Puerto Rico, Mayagüez Campus

Work leading and counseling Mechanical and Industrial Engineering freshmen.
Advisor: Dr. Olga Collado

Education

Bachelor of Science in Mechanical Engineering
Expected Graduation Date – Dec 2005
University of Puerto Rico, Mayagüez
General GPA 3.33 on a 4.0 scale

Skills

Bilingual (English/Spanish)
Computer knowledge: Word, Excel, Power Point, AutoCAD, Micro Station and familiar with C language. Teamwork and "people" oriented.

Organizations

Member of the "Union Bíblica Estudiantil" (UBE)
Member of the Society of Woman Engineers (SWE)
American Society of Military Engineers (SAME)

Awards

May 2000
Robert C. Bird Award given by the Public Education Department.
Luis Hernáiz Veronne Award for being an outstanding student.

References

Available upon request

KIMBERLY CONWAY

387 ROBB ROAD
AMSTERDAM, NY 12010

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EMAIL: CONWAK@RPI.EDU

OBJECTIVE

To obtain an internship in the field of Mechanical Engineering.

EDUCATION

Rensselaer Polytechnic Institute - Troy, NY — August 2002 to present
School of Engineering
Bachelor's of Science in Mechanical Engineering (expected May 2006)
Current G.P.A. of 3.75/4.00; Dean's List

Amsterdam High School - Amsterdam, NY — September 1998 to June 2002
Graduated with honors; selected as Outstanding Science and Latin Student

WORK EXPERIENCE

Rensselaer Polytechnic Institute - Troy, NY — August 2002 to present
Houston Field House Box Office Associate
handled ticket sales and transactions, resolved customer disputes

Bruegger's Bagel Shop - Albany, NY — June 2003 to August 2003
Counter worker
served customers, assisted with inventory and store maintenance

EXTRACURRICULAR ACTIVITIES

Society of Women Engineers, Rensselaer Polytechnic Institute Chapter — Fall 2003 to present
National member of S.W.E.

The Polytechnic, campus newspaper, Rensselaer Polytechnic Institute — Fall 2002 to present
Reporter and member of production staff

Women's Mentoring Program — August 2002 to April 2003
Dorm captain and program member

Red Caps Marching Band — Spring 2002 to present
Band member, lead tenor saxophone player

Fulton-Montgomery County 4-H — 1994 to 2002

COMPUTER SKILLS

MS Word, Access, Excel, Power Point; Maple; Solid Works (CAD)

HOBBIES AND INTERESTS

Soccer, running, music, stock car racing

REFERENCES

Available upon request

Michael Edward Cook

Mechanical Engineering
Computer Science

Permanent:
3503 Nathalee Avenue
Huntsville, AL 35810
(256) 859-1638
mikcook@yahoo.com

School:
1105 Skyland Blvd Apt. 6
Tuscaloosa, AL 35405
Home: (205) 752-3790
Cell: (205) 534-0094

EDUCATION:

The University of Alabama, Tuscaloosa, AL
Major: B.S. in Mechanical Engineering
Minor: Computing Technology & Applications
GPA: 2.9/4.0
Expected Graduation Date: **December 2002**

WORK EXPERIENCE:

Mechanical Engineering Co-op

Blue Circle Cement Company, Calera, AL (Summer 1999, Spring & Fall 2000)
Maintenance / Production Departments

- Monitored the processes of the plant and produced solutions to problems in various systems by modifying existing mechanisms or designing new equipment.
- Implemented database for the history of existing and new equipment
- Produced numerous 2-D, 3-D, and isometric drawings using Autocad
- Evaluated problems, came up with the most cost efficient solution and drafted the drawings of parts for fabrication in various areas throughout the plant
- Implemented and conducted safety program in the Maintenance department, which helped to decrease the amount of doctor visits and loss time accidents
- Utilized project management skills such as organizing man power, finding and ordering equipment, and supervising the work done on various projects throughout the plant
- Utilized maintenance planning skills such as planning jobs on equipment in order of need and regular upkeep, as well as assign man power to those jobs
- Interacted with electricians, maintenance men, laborers, production workers, managers, vendors, and other engineers on a daily basis

Apprentice

Summer High School Apprentice Research Program (SHARP)
NASA Marshall Space Flight Center, Huntsville, AL (Summer 1996)

- Designed protective hardware for the Keel Latch Mechanism of the Space Station Elements Transportation System (SSETS)
- Researched various materials and adhesives

Senior Design Project (ME 489): Moon buggy

Design and build moon buggy for NASA's "Great Moon Buggy Race" Competition (Spring 2002)

Student Research Assistant

Mechanical Engineering Department under Dr. Keith A. Woodbury, Heat Exchangers (Present)

SKILLS:

Windows	Word	Power Point	Excel	Outlook
Autocad	HTML	Matlab	Maple	Fortran
Visual Basic	FrontPage	Java	JavaScript	Patience
Team work	Decision-making			

ORGANIZATIONS & ACTIVITIES:

2001-present	ASHRAE Member
2001-present	Omega Psi Phi Fraternity, Inc. – 01-02' Assistant Keeper of Finance
1999-present	National Association for the Advancement of Colored People (NAACP) - Community Service Committee, '01-02 Publications Chairperson
1999-present	Member of the American Society of Mechanical Engineers
1999-present	**Volunteer Basketball Coach** at Tuscaloosa YMCA
1998-present	National Society of Black Engineers (NSBE) - '99-01 Pre-College Initiative Chairman, '00-01 Telecommunications Chairman

REFERENCES AVAILABLE UPON REQUEST

Robert F. Cowles, Jr.
2531 Lake Crest Drive
Tuscaloosa, AL 35406
(205) 758-8087
robertcowles@comcast.net

Experience

2001-Present QTech, LLC Tuscaloosa, AL

General Manager

QTech, LLC is a third party inspection and containment service to Tier 1, Automotive suppliers in the Southeast. Responsibilities include coordination of containment activities and business management; Interview, hire and train personnel. Daily activities include scheduling personnel, direct customer service, reporting findings to the supplier (QE) and contained product. Provide Engineering support as needed, using Root Cause Analysis and the 8-D Corrective Action method of problem resolution.

Special projects have included:

- ISO/QS9000 quality manual preparation.
- Fixture design for use in inspection of contained product.
- Established computer network to help provide real time communications between QTech LLC and its customers using digital photography, email and wireless communication.
- Completion of the Third Edition QS/ISO 9001 Implementation Training, including SPC, FEMA, APQP, PPAP, MSA and QSA.
- Proficiency in Microsoft Excel.

1991-2001 High Tide Auto Restoration Tuscaloosa, AL

President/Owner

Responsible for generating over 4 million dollars in revenue during the past nine years. Additional responsibilities include daily supervision of workers, accounts receivable, accounts payable, daily scheduling, corporate financing, and customer/employer relations.

1990-1991 JVC of America Tuscaloosa, AL

Mechanical Engineer

Reported to Engineering Manager of Assembly Plant. Worked in the packaging of video cassettes. Responsibilities included providing engineering and production support to the manufacturing staff. Also implemented Preventative Maintenance Program with spare parts inventories which greatly reduced down time and increased production. Implemented two new multi-packaging lines from design to installation.

1988-1990 Sony Magnetic Products Of America Dothan, AL

Mechanical Engineer

Reported to Manager of Manufacturing Engineering. Worked in video tape manufacturing with responsibilities including: Technical and troubleshooting assistance as needed to manufacturing support personnel; Identification and implementation of process and equipment modifications for quality, productivity, and cost margin improvement; Capital project management from development of justification through

procurement, installation, and start-up of equipment. Significant accomplishments include installation and start-up of a new multi-pack wrapper production line and material handling equipment ($600k program); installation and start-up of ten tape winder units ($500k program); Packaging Department reconfiguration requiring redefinition of process flow specification and installation of material handling equipment ($100k program); Design and development of multi-pack elevator feeder and material handling equipment ($80k program); Design and development of a six sided ink jet printing equipment ($75k program) for preparation of packaging corrugate resulting in savings of $85k annually.

Special training received includes General Electric PLC Course; Allen Bradley Visual Inspection; Marsh Ink Jet; and Phillip Crosby Quality Education System.

January 1988-December 1988 Dudley C. Jackson, Inc. Birmingham, AL

Design Engineer

System design; Technical Service; Sales and installation of custom systems. Worked as an applications engineer in support of marketing effort of Graco specialty pump products and Trabon Lubrication Systems. Responsibilities included prospective application analysis, system specification, installation and field support. Position required significant customer service and hands-on technical support. Notable accomplishments include design and installation of a centralized lubrication system for a coal barge unloader ($100k project); Design and development of a process and lubrication oil pump system for a rubber mixer ($80k program).

Special Training included Trabon Centralized Lubrication; Graco Industrial Pumping Applications; Powder Coating principles; International Professional Selling Skills III.

January 1987-December 1987 Tuscaloosa Steel Corp. Tuscaloosa, AL

Co-Op Engineer

Assistant to the maintenance manager. Significant activities included the implementation of a Preventative Maintenance Program and spare parts inventory system.

January 1987-May 1987 Tuscaloosa Testing Laboratories Tuscaloosa, AL

Laboratory Technician

Chemical and physical testing of industrial effluents, process samples and environmental samples.

Summer 1986 Vacuum Mine Services Tuscaloosa, AL

Designed, fabricated, and installed industrial mining equipment.

Education

May 1987 The University of Alabama Tuscaloosa, AL

BS, Mechanical Engineering

Memberships and Certifications

- Member, Society of Tribologists and Lubrication Engineers
- Member, American Society of Automotive Engineers
- Member, American Motorcycle Association

References

Furnished upon request.

Derrick Crocker

Current Address:
500 Snows Mill Ave. Apt. 402
Tuscaloosa, Alabama 35406
(205) 349-1603
derrickcrocker@yahoo.com

Permanent Address:
7105 Allsboro Rd.
Cherokee, Alabama 35616
(256) 360-2667

Objective To obtain an entry level position in the manufacturing industry.

Education

Bachelor of Science: Mechanical Engineering
University of Alabama, Tuscaloosa, Alabama
Expected Graduation: December 2004
Overall GPA: 2.85/4.0
Dean's List

Core Curriculum
University of North Alabama
Florence, Alabama

Experience

Plant Manager, December 1998-October 2000
T. G. Stewards, Centreville, Alabama
Supervised up to an eight person crew of welders, painters, and general helpers. Fabricated custom steel porches, wheel chair ramps, ornamental gates, entranceways, and handrails. Helped establish and refine a porch production manufacturing process. Scheduled the production of porches Hired and trained production welders and painters. Maintained proper material inventory of steel, paint, and decking.

Painter and Band Saw Operator, June 1998-December 1998
T. G. Stewards, Centreville, Alabama
Painted porches and other steel products with electrostatic and conventional painting systems. Operated band saw, fork lift, and mig welder. Innovated a porch painting process. Delivered porches to manufactured home dealers and individuals. Installed gates.

Grocery Store Stocker, February 2001-December 2001, May 1995-August 1997
Piggly Wiggly, Cherokee, Alabama
Assisted in store opening. Unloaded truck on stock days. Stocked perishableand non -perishable goods. Inspected and checked in produce. Took deposits to bank. Bagged and carried out groceries.

Cashier, February 1998-August 1998
Arby's, Tuscaloosa, Alabama
Collected money at both front register and drive-thru window. Dealt with customers.

Computers AutoCAD, Excel, FORTRAN, Matlab, PowerPoint, and Word.

Activities American Society of Mechanical Engineers

References Available upon request

NICHOLAS MILES MILNER DABBS
n_dabbs@hotmail.com

School:
909 12TH St. Unit #5
Tuscaloosa, AL 35401
(205) 752-1767

Permanent:
18415 Goldville Rd.
Daviston, AL 36256
(256) 234-2090

EDUCATION

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, AL
Expected Graduation: December 2003, Major GPA: 3.0/4.0

Associate of Science: Mechanical Engineering
Central Alabama Community College, Alexander City, AL
Graduation: May 2000, Cumulative GPA: 4.0/4.0

EXPERIENCE

Senior Design Project, Southern Company Inc., Demopolis, AL (May 2003 – August 2003)
Redesigned an external oil lubrication system to reduce vibration in piping network. Worked with team to accomplish objectives of project. Contacted industrial contractors for bids on project.

Senior Design Project (January 2003 – May 2003)
Designed, built, and tested underhand softball pitching machine for youth league softball players. Worked with team to accomplish objectives of project.

Production Supervisor, Elk Corporation, Tuscaloosa, AL (August 2002 – December 2002)
Served as Production Supervisor for entire plant. Managed all production line employees. Monitored quality assurance. Held production meetings to discuss production goals with employees. General supervisor responsiblities including weekly employee scheduling, disciplinary actions using proper union procedures, and performed daily plant rounds.

Engineering Co-op, Elk Corporation, Tuscaloosa, AL (January 2002 – May 2002)
Designed piping systems for three different water spraying systems used to lubricate cutting cylinder knives. Performed formal design reviews. Wrote Authority For Capital Expenditure (AFCE) to corporate office for approval of funding for project. Ordered all necessary installation and spare parts from vendors. Bid the projects to local industrial contractors. Supervised installation of water spraying systems. Trained operators and set-up standard operating procedures on spraying systems.

Engineering Intern, Elk Corporation, Tuscaloosa, AL (August 2001 – December 2001)
Produced AutoCAD drawings from field drawings. Wrote AFCE for several projects including Well Water System and Railcar Unloader. Supervised projects for engineers.

Engineering Co-op, Elk Corporation, Tuscaloosa, AL (May 2001 – August 2001)
Designed metal shelves used to store pipes. Designed hopper and conveyor belt system used to reclaim shingle tabs. Performed formal design reviews. Wrote AFCE to corporate office for approval of funding for project. Ordered all necessary installation and spare parts from vendors. Bid projects to local industrial contractors. Supervised installation of hopper and conveyor belt system. Trained operators and set-up standard operating procedures on conveyor belt system.

COMPUTER SKILLS

AutoCAD, Matlab, C-based Programming, Time and Attendance Program, MAXIMO, Internet Explorer, Netscape Navigator, Mozzilla, Windows 95 – XP, Microsoft Outlook, Publisher, Excel, Word, and Power Point.

HONORS/ACTIVITIES

Alabama All-Academic Team
Senator John B. Allen Award
Phi Theta Kappa Honor Society
President's List
Volunteer work for Boy Scout fundraiser
Pre-Calculus and Calculus Tutor
Central Alabama Community College Ambassador
Phi Theta Kappa Honor Society
American Society of Mechanical Engineers
Society of Automotive Engineers
Volunteer work for Relay for Life
Peer Mentor for Engineering Dept.

REFRERENCES

Available Upon Request

Permanent Address
2 Fisher Place
Yardville, NJ 08620
(609) 581 – 8051
daltom@rpi.edu

MARY C. DALTON

Campus Address
2209 14th Street
2nd Floor
Troy, NY 12180
(518) 274 – 9404

Objective

Seeking a challenging summer internship with an engineering firm

Education

Rensselaer Polytechnic Institute — Troy, NY
B.S., Mechanical Engineering, May 2005
GPA: Cum. 3.85 / 4.00

Awards Received

Ford Motor Company Scholarship Recipient, 2002 – 2004
Rensselaer named Emily Roebling Scholar, 2001
Pat Van Hise Honorary Scholarship for excellence in computer science, 2001

Leadership Experience

RPI Society of Women Engineers
President, July 2003 to present
- Improving section vitality by planning exciting events and attracting new members
- Establishing and maintaining a network of professional contacts

Publicity Coordinator, July 2002 to June 2003
- Promote campus awareness of RPI SWE chapter
- Coordinated Girl Scouts Engineering Discovery Day sponsored by Lockheed Martin

Women at Rensselaer Mentor Program
Mentor, August 2003 to present
- Serve as a resource for first-year women to help them get acclimated to campus life

RPI Archer Center for Student Leadership and Development
Professional Leadership Program
- Experiential weekly course emulating a professional environment
- Discussions focus on concepts and complexities of leadership in the workplace

Work Experience

RPI Admissions Office
Student Ambassador, 2001 – present
- Guide prospective students and others on informative campus tours

Student Coordinator, 2002 – present
- Assist in organizing and implementing day-events for prospective students

Atkinson Koven Feinberg Engineers — Princeton, NJ
Intern, Summer 2003
- Helped design HVAC systems for several building projects in NJ area
- Gained industry experience in the office and on job sites

RPI Advising and Learning Assistance Center
Tutor, Spring 2001 – Spring 2003
- Weekly group tutoring focusing on first year engineering and math courses

Relevant Coursework

Principles of Heating, Ventilating and Air Conditioning (ASHRAE Student Member)
Elements of Mechanical Design, Mechanical Systems Laboratory
Engineering Dynamics, Thermal and Fluids Engineering,
Introduction to Engineering Graphics and Computer Aided Design

Skills

Proficient in Waterloo Maple, Microsoft Excel, Microsoft Word, Microsoft Power Point
Programming knowledge base in C++ object-oriented language
CAD experience with AutoCAD 2000 and SolidWorks 2001 Plus
Personable, neat, organized and dependable

References available upon request

Honey Dandwani

12924 Waterford Woods Circle, Apt # 204, Orlando, Florida 32828.
407.484.8232, 407.313.9684 Email: hdandwani@yahoo.com

Objective

To acquire an internship to expand my knowledge in the field of engineering

Education

08/2- present
University of Central Florida (UCF), Orlando, Florida
Major: Mechanical Engineering
Class Standing: Senior
GPA: 3.3/4.0

8/99- 05/02
Daytona Beach Community College (DBCC), Daytona Beach, Florida
Associates of Arts in Math and Science

Honors & Awards

Service Award for volunteer work, SWE, Society of Women Engineers
DBCC Honors College, Presidents and Deans List
International Student Scholarship
John, Margaret and Crumley Foundation Scholarship

Projects

08/02-4/03
Wind Tunnel Project, UCF
Worked on the Payload, Lift and Drag Forces section in the construction of a Wind Tunnel

08/03- current
Micro satellite Design Project, UCF
Working in cooperation with NASA on the design and construction of a Micro satellite carrying a payload to be deployed in lower earth orbit for Data analyses

Experience

08/03 - present
Mitsubishi Power Systems, Orlando, Florida
Engineering Technician
Tracking various components of the Turbine Engine undergoing repair
Updating records and maps of the components
Assisting Engineers, Operators and Machinist

06/03 - 07/03
University of Central Florida, Orlando, Florida
Tutor/Mentor for the SPACE Program for the Minority Engineering and Computer Science Programs Office

01/03 - 05/03
University of Central Florida, Orlando, Florida
Research Assistant
Assisted in the ongoing research project on properties of materials

01/01 - 08/02
Daytona Beach Community College, Daytona Beach, Florida
Math Tutor
Tutored students in Calculus, Physics, College Math and Chemistry

Interests & Activities

Current Events and Activities Committee Chair, SWE, UCF
Member of Society of Automotive Engineers, SAE, UCF
Vice President of International Student Organization, DBCC
Historian of Phi Theta Kappa Honor Society, PTK, DBCC
Student Ambassador, Campus Orientation, DBCC

Computer Skills

Microsoft Office 2000, Novell GroupWise, AutoCAD, MathCAD and IDEAS9

TROY J. DENT JR.

217 37th Place
Tuscaloosa, AL 35405
205 342-2526
troyspike@aol.com

Objective

To obtain a summer Internship, or Part-time work with future full-time employment upon graduation.

Education

Bachelor of Science, Mechanical Engineering — Expected graduation: December 2005
The University of Alabama, Tuscaloosa, Alabama — GPA: 1.57

Georgia Institute of Technology, Atlanta, Georgia
Mechanical Engineering
Pulp and Paper Science, Certificate - Performed research for Inland-Rome Paper mill concerning the effects on the pulping and bleaching process caused by the use of hardwood with softwood. Also researched methods of reducing errors during testing procedures by reducing operator variations.

Experience

Bill Ferrell Company, Atlanta, Georgia. — August 2001 – December 2001
Installation Technician for lighting, sound, and scenery at Callaway Gardens, Pine Mountain, Georgia for the production of the "Fantasy of Lights" display. Duties included power distribution, electrical and audio wiring, building scenery pieces, and operation and maintenance of displays.

Freelance Technician in Metropolitan Atlanta, Georgia — November 2000 – April 2001
Performed freelance sound and lighting installation and setup for technical theater and special events. Clients included Full Circle Lighting, Inc., Gwinnett Civic and Cultural Center, and the Rialto Theater. Duties included installation, operation, and troubleshooting of lighting and sound systems in addition to specialty visual equipment for multiple events and productions.

Rector Roberts Productions, Military Bases Worldwide — February 1999 – November 2000
Production Stage Manager for stage presentations of the theatrical production "Letters from the Front". Theatrical production tour encompassed travel to a multitude of United States military bases within Europe, Pacific Islands, and the Orient. Responsible for pre-production schedule, budget, technical direction, transportation schedule, stage management, and maintaining contact with bases regarding personnel, lodging, scheduling and promotions. Performed research and clerical work when not on tour.

Centerline Productions, Atlanta, Georgia — June 1994 – February 1999
Lighting and electrical technical expert for theatrical productions and special events for various sites and clients in the Atlanta, Georgia area. Clients included those involved with the 1996 Olympic venues such as the Sponsor Village, and CNN World Report Teleconference. In addition to providing continual support to "Fantasy in Lights" at Callaway Gardens and technical support for Gwinnett Civic and Center, Robert Ferst Performing Arts Center, and Rialto Theater. Duties included facility and stage management, installation and operation of lighting (fixed and automated), setup and troubleshooting of counterweight fly system for moving heavy stage sets, sound, audio, and visual equipment and construction of scenery and backdrops.

Military Service

United State Marine Corps Reserve — June 1989 – September 1995
Field Radio Operator. Completed communication specialist training at Twenty-Nine Palms, California, at top of class. Also completed Parachute and Alpine Warrior Training.
3rd Force Reconnaissance Company, Mobile, Alabama — September 1989 – March 1994
4th Low Altitude Air Defense Battalion, Marietta, Georgia — March 1994 – September 1995

Computer Experience

AutoCAD (AutoDesk), WordPerfect, Lotus 123, DOS, FORTRAN, C++, Corel Draw, MS Excel, MS Word, MS PowerPoint, MS Windows Applications.

References available upon request.

BUCKY DINGLER

Current Address:
14544 Rogers Ct.
Tuscaloosa, AL 35405
(205) 247-4914

bdingler5@cs.com

Hometown:
33 Billy Circle
Alexandria, AL 36250
(256) 820-2411

Education

Bachelor of Science: Mechanical Engineering — Graduation May 2004
University of Alabama, Tuscaloosa — GPA 2.8/4.0
Gadsden State Community College; Core Curriculum — GPA 3.4/4.0
Passed Fundamentals of Engineering Exam — April 2003

Professional Experience

DCH Medical Center — **May 2001- Present**
Tuscaloosa, AL — **Engineering Services Department** — **Co-op Engineering Student**

Maintain prints and project manuals; Maintained interior and exterior wayfinding and identification signage; Assisted in creation of departmental presentations; Testified and assisted in court cases as technical expert; Regularly inspected hospital for JACHO and ADA compliance

Parker Hannifin IVD — **January 2000- December 2000**
Jacksonville, AL — **Process Engineering Department** — **Co-op Engineer**

Maintained process print revisions; Assisted in lab experiments and trials; Edited programs for CNC machines; Submitted a redesigned pressure relief valve

Computer Skills

AutoCAD 2D&3D; Inventor; Pro/Engineer; Fortran; Matlab; Simulink; MS Excel; MS Word; MS PowerPoint; MS Access; Maintscape; Meditech; Outlook;

Organizations

American Society of Heating, Refrigerating and Air-Conditioning Engineers; American Society of Mechanical Engineers; American Society Hospital Engineers; Institute of Electrical and Electronics Engineers

Work and Class Projects and Presentations

2003 (Senior Design Project) Designed and built specialized "go-cart" for handicapped child; Formal Tide Racer Design Review Presentation; Consulted on new machine purchase for Smith Machines, Cottondale, AL; Designed US Navy Pressure Vessel Hatch; Formal US Navy Pressure Vessel Design Presentation; Designed Boring Bar; Formal Boring Bar Design Presentation; Ghost-Wrote Chillers and Chilled Water Distribution Presentation;

2002 Designed and Implemented loading area for Dialysis Equipment; Designed Renovation to DCH Engineering Shop; Designed and Implemented 3 Handicapped Access Routes for DCH Medical Center Parking Deck; Ghost-Wrote Fire Alarm Detection Presentation; Semi-Formal Domestic Hot Water Distribution Progress Presentation; Formal Chilled Water Distribution Presentation; Semi-Formal Key Log Database Presentation

2001 Designed parking lot; Semi-Formal Parking Lot Design Presentation; Designed unique paper clip; Semi-Formal Paper Clip Design Presentation; Designed and built solar water heater; Formal Solar Water Heater Design Presentation; Designed and wrote Matlab animation; Formal Maintscape Scanner Education Presentation;

2000 Designed Pressure Relief Valve

References and Transcript available upon request

Melissa Susan Disher

bama_d2@hotmail.com

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906 13th Ave, Apt# 285.
Tuscaloosa, AL 35401
(205) 657-2554

Permanent Address
200 Winslow Dr.
Athens, AL 35613
(256) 233-1632

Education:

Candidate for Bachelor of Science, Mechanical Engineering, May 2003
The University of Alabama, Tuscaloosa
GPA: 3.39/4.00

Passed Fundamentals of Engineering Exam, Fall 2002

Senior Design I– Fall 2002 – Designed and built an assistive device for a child with Spina Bifida. The device moved the child from the floor to the bathtub and from the floor to a wheelchair.

Senior Design II – Will be complete May 2003 – Will be designing and building a heat exchanger for the QUEST program at the University of Alabama to be used at the Dothan campus. This will include sizing piping, fittings, and an electric water heater

Experience:

August 2000– May 2003
University of Alabama, Tuscaloosa, AL - Mechanical Engineering Department
Grader for DR 125, which is a class designed to teach elementary drafting and AutoCAD.

Summer 2002
Delphi Automotives, Athens, AL - Engineering Intern
Worked with a Mechanical Engineer. Studied various machines and offered solutions for their problems. Updated the Calibration Procedures of machines. Designed a ram for a bulkhead press. Various other responsibilities.

Summer 2000
Delphi Automotives, Athens, AL - Engineering Intern
Worked with a Mechanical Engineer. Updated pinion drawings. Started a production count book. Organized the annual Engineer vs. Intern Softball game. Various other office responsibilities.

Fall 1999
Saiia Construction, Birmingham, AL - Co-op Student
Calculated the amount of supplies need for a job site. Requested quotes from vendors. Input construction site plans into computer program, Agtek. Picked up and delivered various site plans. Various other office tasks.

Summer 1999
Delphi Automotives, Athens, AL - Engineering Intern
Worked with an Environmental Engineer. Installed guardrails. Maintained waste disposal book. Audited chemical supply of wastewater treatment plant. Updated MSDS books for various departments of plant. Various other office responsibilities.

Computer Skills:
Microsoft Word, Microsoft Excel, Microsoft PowerPoint, FORTRAN, MatLab, AutoCAD, Agtek, Ansys

Honors/ Activities/ Community Service:

Alpha Lambda Delta, freshman honor society
American Society Mechanical Engineers
Dean' List, Spring 1999, Spring 2000, Fall 2001
Golden Key National Honor Society
National Society of Collegiate Scholars
Phi Eta Sigma National Honor Society
Pi Tau Sigma, Mechanical Engineering Honor Society – inducted Fall 2001
Presidential Scholarship Recipient
Theta Tau Fraternity
- Engineering Executive Council Representative, Spring 2000
- Fundraising Chair, Fall 2000, Fall 2002
- Inner Guard, Spring 2001
- Co-ed Softball Team Captain, Spring 2000, Spring 2001

United Way's Day of Caring (Delphi Automotives)
- Summer 1999 – Spent day with the Boys and Girls Club of Decatur, AL
- Summer 2000 – Built a playground for mentally and physically handicapped children

References available upon request

Kara Doddek

3587 Redlich Dr.
Decatur, IL 62521 • (217) 422-5148
kkdoddek@siu.edu

OBJECTIVE

To utilize my work experience and education to secure a mechanical engineering career in a manufacturing environment.

EDUCATION

Bachelor of Science in Mechanical & Electrical Engineering — May 2004
Southern Illinois University — *Carbondale, IL*

EXPERIENCE

Corporate Intern—Construction Products — May 2003-August 2003
Caterpillar, Inc. — *Decatur, IL*

- Designed a change to 'commonize' tail light assemblies for all wheel tractor scraper models.
- Earned Six Sigma Green Belt certification while participating on the lean event team to reduce costs and streamline the wheel tractor scraper bowl weld and assembly lines.
- Updated the electrical schematics for two models of wheel tractor scrapers.

Intern—Component Design and Engineering Services — May 2002-August 2002
Caterpillar, Inc. — *Decatur, IL*

- Designed change for 16H motor grader hitch to achieve a $10,000 annual cost savings.
- Discovered the motor graders had identical parts from different suppliers at different costs; made appropriate changes to maximize savings.

Intern—Global Mining — May 2001-August 2001
Caterpillar, Inc. — *Decatur, IL*

- Wrote the user's manual for VIMS Supervisor (software program).
- Worked on small projects to achieve cost reduction for the large mining trucks electrical department.

Intern—Facilities Engineering — May 2000-August 2000
Caterpillar, Inc. — *Decatur, IL*

- Determined the coal supply was sufficient to last the Decatur plant until change over to natural gas was completed.
- Designed lifting devices and created drawings in AutoCAD.

HONORS/ACTIVITIES

- Society of Women Engineers (SWE)—President, Vice President, Secretary
- Engineering Student Council (ESC)—Vice President
- American Society of Mechanical Engineers (ASME)—ESC Representative
- Institute of Electrical and Electronics Engineers (IEEE)—Vice Chair

SKILLS

- ProEngineer, AutoCAD, C++ and Fortran
- MS Word, Excel, PowerPoint

CARRIE DAWN EATON

Current Address:
228 Alexander Tubbs Road
Nauvoo, AL 35578
(205) 387-8768
cerolltide@aol.com

Objective: To obtain a technically challenging job in Mechanical Engineering which will allow me to use my design abilities and communication skills.

Education:

Bachelor of Science: Mechanical Engineering
Graduation date, August 11, 2003
The University of Alabama, Tuscaloosa, AL
Senior Design Project: Slowpitch Softball Pitching Machine

Experience:

January 2000-
December 2001

Mercedes Benz, Vance, AL
Engineering Co-op – Supply Quality
Involved mainly with the chassis group. Worked with a specific supplier, guaranteeing that the quality of the products were of the highest quality. Dealt with problems that arose with the suppliers parts. Analyzed the problems, worked out a solution, and made sure that the solution was being followed by the supplier. Generated summary reports for the problems, and often times traveled to the supplier to verify that the proposed solution was working. Involved in retrofits and new product testing on vehicles. Helped with setup/update of departmental databases.

August 1995-
May 1996

Solid Image Fitness formerly Gold's Gym Aerobics and Fitness, Jasper, AL
Receptionist/Clothing Shop Coordinator
Basic office duties, organized and participated in blood drives, nutrition days, and kid's camps.

August 1994-
December 1995

Office Assistant
Ricky Harris Insurance Agency, Jasper, AL

Computer Skills: Windows 98, XP, Microsoft Office (97, XP Professional), Matlab, AutoCAD, 3-D CAD, Maple 6, E-mail, Internet

Honors/Activities:

Salvation Army
Volunteered during Christmas distributing toys to children, Fall 1997
American Society of Mechanical Engineers, Spring 2003
Society of Automotive Engineers, Spring 2003

RYAN JAMES ENGERT

4307 Ridgeland Drive
Pace, FL 32571
(850) 995-5845
ryan@engert.com

OBJECTIVE

Obtain an entry to mid-level mechanical or plant engineering position making best use of my technical and interpersonal skills. Accustomed to working in a team environment or independently.

EDUCATION

5/1998 University of Alabama Tuscaloosa, AL

Bachelor's Degree in Mechanical Engineering

Graduated Magna Cum Laude with 3.725 GPA

HONORS

1997-1998 ACIPCO Scholarship - University of Alabama
1994-1997 University Honors Program
1994-1997 William A. McCalla Memorial Scholarship - University of Alabama
1994-1998 Robert C. Byrd Honors Scholarship
1994-1998 Presidential Scholarship - University of Alabama
1994 Offer of Admission - United States Military Academy

COURSES

ME 490 - Senior Design Project involved construction of an autonomous walking robot to compete in the SAE Walking Machine Decathlon

ME 491 - Industrial Applications of Dynamic Data Acquisition and Analysis - covered Digital data acquisition and Frequency Domain analysis for the purposes of measuring vibration, noise, and electrical control

ACTIVITIES

SAE Walking Machine Decathlon, 1998
NSF Foundation Coalition, Integrated Curriculum, 1994-1997
Intramural Softball, 1996 & 1998

5/1994 Pace High School Pace, FL
Class Valedictorian

EXPERIENCE

6/1998 - Present R. S. Engert & Company Pensacola, FL

Industrial Equipment Sales Engineer

- Products included industrial fluid processing equipment & waste & water treatment equipment
- Select & Design Equipment to solve fluid processing or waste treatment problems
- Managed over 300 industrial customer accounts
- Made outside sales calls to customers in the Florida Panhandle & South Alabama region
- Managed computer network and database system
- Completed technical drawings of industrial equipment quoted by sales engineers

• Designed and maintained Microsoft Access database to manage customers, track quotes & orders

8/1996 - 5/1998 University of Alabama Tuscaloosa, AL

Computer Lab Monitor/Teaching Assistant
- Student teaching assistant for freshman engineering classes
- Lab monitor in charge of computers
- Engineering Tutor
- Assist with homework, design projects, computer problems

AFFILIATIONS

12/1998 - Present	Tau Beta Pi, Engineering Honor Society	Member
9/1997 - 8/1999	Society of Automotive Engineers	Member
8/1997 - Present	Pi Tau Sigma, Engineering Honorary Fraternity	Member
8/1997 - 8/1999	American Society of Professional Engineers	Member
12/1994 - 8/1999	American Society of Mechanical Engineers	Member

COMPUTER SKILLS

Software	Skill Level	Last Used	Experience
AutoCAD	Intermediate	Currently used	9 years
Word	Expert	Currently used	10 years
Excel	Expert	Currently used	10 years
Powerpoint	Intermediate	Currently used	6 years
Outlook	Expert	Currently used	6 years
Access	Expert	Currently used	8 years
TKSolver	Intermediate	Currently used	6 years
C Programming	Beginner	+4 years ago	1 year
Visual Basic	Intermediate	Currently used	4 years

REFERENCES

Russell S. Engert R. S. Engert & Company President
Phone Number: (850) 477-8776
Reference Type: Professional

Gary Funkhouser GM / Deplhi Thermal Systems (Retired) Senior Advisor
Phone Number: (205) 345-8307
Reference Type: Personal

Dr. Joey Parker University of Alabama Professor
Phone Number: (205) 348-6010
Reference Type: Professional

JUSTIN ENOCH

960 Paradise Point Dr.
Columbiana, Alabama 35051
Home: (205)-347-4443
Permanent: (205)-669-0106
Enoch002@bama.ua.edu

OBJECTIVE

To obtain a summer internship for summer 2004.

EDUCATION

Bachelor of Science Mechanical Engineering
University Of Alabama, Tuscaloosa Alabama
Graduation: December 2004 GPA 3.01.
Worked to fund all classes, tuition, and expenses.

Pre Engineering – core curriculum
University Of Montevallo, Montevallo Alabama
August 2000 – May 2001

EXPERIENCE

University of Alabama, Tuscaloosa Alabama
Technical lab assistant, Aerospace research lab.
November 2002 – present, part time.

- Design and construction of laboratory test stands involving laser instruments.
- Construction of a high-speed photographic laboratory for filming bullet proof glass tests.
- Hardening of metallic test specimens

Enoch & Associates, Columbiana Alabama
Office Assistant, Landscape Architectural firm.
1996-2002, part time

- All office maintenance tasks, inside and outside.
- Manual drafting and blue print production
- Delivery runner

Justin's Nursery, Columbiana Alabama
Owner / Operator, Japanese Maple tree nursery
1997 – Present, seasonal.

- Maintenance of over 1000 trees including irrigation and fertilization
- Sales and installation consultation
- Money management / bookkeeping

ACTIVITIES

- American Society of Mechanical Engineers spring 2002-present
- American Society of Heating and Refrigeration Engineers, Fall 2003-present
- Deans list, University of Alabama spring-fall 2003.

REFERENCES

Available upon request.

CARL TILMAN ETHEREDGE, JR.

PO Box 867794
Tuscaloosa, AL 35486-0070
carletheredge@mindpring.com
Home: (205) 347-3470
Cell: (205) 454-8596

OBJECTIVE

To work in the field of mechanical engineering, preferably in the area of controls and with a company offering opportunities for growth and continued education.

EDUCATION

Graduate Engineering Studies Concentrating in Controls
The University of Alabama – Tuscaloosa, AL (August 2001 – Present)
GPA: 3.2/4.0
Will Receive Master of Science in Mechanical Engineering December 2003
Bachelor of Science in Mechanical Engineering
The University of Alabama – Tuscaloosa, AL (August 2001)
Major: Mechanical Engineering, Minors: Mathematics and Computer Science
GPA: 2.9/4.0
Passed the Fundamentals of Engineering Exam on October 28, 2000
Foundation Coalition Curriculum – (Integrated Engineering Program)
Freshman Design Projects: Water Tower Design, Catalytic Converter (Chemical Scrubber), Polymer Product
ME Design Clinic – Senior Design Classes
Designed and built a fishing device which used an off-the-shelf rod and reel controlled by a sip-n-puff switch to cast and reel in a lure
Worked for Ultraliner, Inc. to develop new sewer lateral installation process and related equipment

EXPERIENCE

Cooperative Education Program – Westinghouse Savannah River Company – Aiken, SC
Received Department of Energy Security Clearance, 'L' Level
Savannah River Technology Center – Robotics and Specialty Equipment (Fall '97, Summer '98, Spring '99, Summer '99)
Designed a gravity actuated grapple to be used in a new facility at Savannah River Site
Awarded patent for design
Designed job specific tool for use in radiological glove box
Provided support for emergency projects and testing of new tools
Assisted in development of software for prototype optical strain measurement device
Conducted business with vendors to obtain equipment
Conducted tests of prototype device
Assisted in design of a small pipe inspection device
Savannah River Technology Center – Engineering Equipment and Services (Spring '97)
Assisted engineers with design of tools for use at Savannah River Site
Provided support for tests of new equipment
Conducted business with vendors to maximize use of off-the-shelf equipment
Defense Waste Processing Facility – Plant Engineering & Systems Maintenance (Summer '96)
Tracked water usage in decontamination system
Collected and organized data for use in waste minimization analysis
Designed tool and procedure to test new HVAC system lubricator
Revised equipment calibration procedures
The University of Alabama, TIDE Program (Foundation Coalition)
Undergraduate Teaching Assistant and Tutor (Summer '95, Fall '95, Spring '96, Fall '99, Spring '00, Fall '00, Spring '01)
Assisted with math and freshmen design courses
Tutored students in calculus, physics, and chemistry
Assisted faculty members in developing projects and building prototype equipment for design classes
The University of Alabama, Mechanical Engineering Department
Graduate Teaching Assistant (August '01 – Present)
Set up equipment for Mechanical Engineering Controls Lab and assist students as they conduct weekly experiments
Undergraduate Assistant (Summer '00)
Assembled and repaired equipment for use in Mechanical Engineering Controls Lab

COMPUTER SKILLS

Visual C++ (with some MFC experience), Fortran, ADA, Pascal, Microsoft Excel, PowerPoint, Word, Microstation, AutoCAD, Maple, Matlab, LABVIEW, TestWorks, DirectSOFT, HTML

EDGAR J. FILES III

800 Energy Center Blvd. Apt 908
Northport, Al 35473
(205) 887-1248
Jay4Bama@comcast.net

Objective

To seek a challenging, hands-on employment in an area of consumer, travel, or defense products manufacturing.

Education

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, Alabama
Graduated, May 17, 2002 Professional GPA 2.75/4.0

Work Experience

Summer 2001

Summer Camp Counselor
Twin Lakes Camp, Florence, Ms.
Worked at the advanced high ropes course allowing campers ages 6-12 to enjoy nature at its best. Managed eight campers in my cabin in the evenings.

Summer 2000

Summer Internship
Elk Corporation, Tuscaloosa, Al.
Designed various parts and equipment crucial to the continual operation of the plant.
Accounted for all parts on hand in the computer system. (Inventory)

Summer 1999

Summer Internship
David Volkert & Associates, Gulf Shores, Al.
Helped prepare various engineering projects.
Example: Helped design The James Bridge, (Orange Beach, Al.).
Used CAD.

Fall 1998

Assistant Director
University Programs, The University of Alabama
Organized Alan Jackson Concert for Homecoming.

Computers

MS Word, MS Excel, MS PowerPoint, AutoCAD, Windows, Matlab, Maple, AOL and Netscape.

Leadership

Society of Automotive Engineers Treasurer for 2000/2001 school year.
Active member of the American Society of Mechanical Engineers.
Vice-President of American Society of Heating, Refrigerating, and Air-Conditioning Engineers at The University of Alabama.

Interests

Guitar, hunting, fishing, airplanes, design and building.

References

Available upon request

Shaina Geist
1617 Adams Road
Bankston, Alabama 35542
(205) 932-8331
shainag7@hotmail.com

OBJECTIVE

To obtain a position in Mechanical Engineering that will allow me to improve existing mechanical equipment and/or to design, build, and/or test new equipment.

EDUCATION

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, AL
Graduation Date: May 17, 2002
Higher Education GPA: 3.5/4.0; UA GPA: 3.0/4.0; ME GPA: 3.1/4.0
Took Fundamentals of Engineering Exam October, 2001
Senior Design Project – "Baseball Frenzy"
Senior Project - Eaton Aerospace Pump Horsepower Loss Study

Non-Degree student: Computer Science, Pre-Engineering
Bevill State Community College, Fayette, AL; Transferred: August, 1998

EXPERIENCE

Project Engineer - Quality Assurance, October 2002 - Present
NTN-Bower Corporation, Hamilton, AL
Oversee production and insure quality of sample bearings and new products to be sent to customers. Assemble sample bearings. Collect and document inspection data on sample bearings. Approve/reject raw materials.

Mechanical Engineering Co-op - Quality Assurance, Summer 2001, Fall 2000
NTN-Bower Corporation, Hamilton, AL
Supervised production of an assortment of sample bearing parts to be sent to potential customers, collected statistical data on the samples, and organized filing system for collected information. Conducted comparative study on competitor's products and documented all results. Tested several parts before and after heat treatment. Analyzed reject bearings to find reason for rejection.

Chemical Engineering Co-op - Quality Control Lab, Spring 1999
Mississippi Chemical Corporation, Yazoo City, MS
Tested the quality of samples of many products. Assisted plant engineers with various projects.

COMPUTER SKILLS

Windows 95/98/NT/ME, Microsoft Word, Microsoft Excel, Matlab, AutoCAD, Microsoft Works, Internet, E-mail, Maple, Power Point, AutoDesk Inventor, Fortran, PictureWorks' Photo Enhancer

HONORS/ACTIVITIES

Cooperative Education Program
American Society of Mechanical Engineers
Society of Automotive Engineers
Ferrin Y. Matthews Engineering Cooperative Education Scholarship, Spring 2001
Who's Who Among Students in American Junior Colleges
Outstanding Student in Engineering Award, Junior College
Phi Theta Kappa National Honor Society, Junior College
Campus Ministries, Vice-President, Junior College

REFERENCES AVAILABLE UPON REQUEST

Carla Marie Giron

21406 Budlong Avenue, Torrance, CA 90502, (310) 618-8604 cgiron@ucla.edu

OBJECTIVE:

To obtain a full-time mechanical engineering position

EDUCATION:

Bachelor of Science in Mechanical Engineering September 2000—June 2004
UNIVERSITY OF CALIFORNIA, LOS ANGELES
GPA: 3.37

Related Coursework: Computer-Aided Design and Drafting; Engineering Thermodynamics; Fluid Mechanics; Engineering Materials; FORTRAN Programming; Mechanics of Deformable Solids; Electrical/Electronic Circuits; Mathematics of Engineering; Manufacturing Processes; Transport Phenomena; Mechanical Engineering Laboratory; Mechanical Vibrations; Feedback and Control Systems

EXPERIENCE:

Engineering Student Intern August 2002—December 2002
Los Angeles County Department of Public Works, Alhambra, California

- Performed detailed field reviews/investigations of engineering infrastructure.
- Performed sub-professional civil engineering duties under the supervision of registered civil engineers.
- Composed detailed reports utilizing PowerPoint to summarize findings of field investigations.
- Interacted with all levels of engineers and department administrators.

Sales Associate September 2000—January 2001
TJ Maxx, Torrance, California

- Developed public relations skills through constant customer interaction in a fast-paced environment.
- Commended for efficiency in completing tasks.

ENGINEERING PROJECT:

Boeing Team Tech Competition
Society of Women Engineers, University of California, Los Angeles

- Worked with Boeing Rocketdyne on their Main Fuel Valve Cryogenic Leak Test.
- Brainstormed, researched, designed, and presented multiple possible solutions to improve current cryogenic leak test procedure with a team of students of diverse engineering disciplines.
- Overcame project challenges as a team of engineers with partners in industry.

CAD Assembly Design April 2002—June 2002
Mechanical and Aerospace Engineering Department, University of California, Los Angeles

- Utilized SolidWorks Design Kit in creating 3D models of individual parts of an object.
- Produced a 3D assembly of the object using these parts.

LABORATORY EXPERIENCE:

Basic Mechanical Engineering Laboratory January 2003—March 2003
Mechanical and Aerospace Engineering Department, University of California, Los Angeles

- Employed teamwork and previous class knowledge in performing lab experiments and creating lab write ups for flow and strain measurements, heat exchangers, refrigeration, pipe flow, stress analysis, critical speeds, data acquisition, and a centrifugal pump.

SKILLS:

SolidWorks 2001, Microsoft Word, Excel, PowerPoint, Outlook, Access, Conversational ability in Tagalog

ACTIVITIES:

Society of Women Engineers (SWE), UCLA; American Institute for Aeronautics and Astronautics (AIAA), UCLA; Pilipinos in Engineering (PIE), UCLA, Intramural Sports (Basketball), UCLA

Amy Rose Gitnick
US Citizen
gitnia@rpi.edu

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20855–2652
(301) 948–1013
(301) 467-1970

Campus Address
Davison 409
RPI Residence
1999 Burdett Ave.
Troy, NY 12180
(518) 276-7386

Objective: A position for the summer of 2004 in the field of Engineering

Education:

Rensselaer Polytechnic Institute, Troy, NY — Class of 2006
BS: Dual Mechanical Engineering / Economics — GPA 3.87 / 4.00

Richard Montgomery High School, Rockville MD — Class of 2002
Graduated with Certificate of Merit and International Baccalaureate Program Diploma

Skills:

Coursework: Strength of Materials, Engineering Dynamics, Introduction to Engineering Analysis, Chemistry of Materials I/II, Physics I/II, Calculus I/II, Differential Equations, Engineering Graphics and CAD, Quantitative Analysis, Managerial and Macroeconomics
Applications: SolidWorks, Maple, Word, WordPerfect, Excel, Access, PowerPoint; Typing over 50 wpm
Operating Systems: Microsoft Windows 95/98/ME/XP, UNIX, LINUX

Experience:

Presidential Mortgage, Inc., Bethesda, MD
Office Intern — June 2003 – Aug 2003

- Prepared mortgage files for the shipping department
- Organized a multipart filing system

Rensselaer Polytechnic Institute, Troy, NY
Center for Subsurface Imaging and Sensing Systems — Dec 2002 – May 2003

- Member of the CenSISS Scholars Program
- Designed an exhibit showcasing the use of acoustics in subsurface sensing and imaging

The Scott Group, Inc., Rockville, MD
Receptionist — Aug 2002

- Provided customer service
- Managed legal paperwork
- Billed tenants of rented properties

Leadership Activities and Honors:

Member - Society of Women Engineers	2002-2004
Member - American Society of Mechanical Engineers	2002-2004
Member - RPI Aikido Club	2003-2004
Member - RPI Outing Club	2002-2004
Member - RPI Jazz Ensemble	2002-2004
Member - America's Pep Band	2002-2004
Member - National Honor Society	2000-2002

COURTNEY H. GRAHAM

150 Rice Mine Road Apt. G107 • Tuscaloosa, AL 35406 • (205) 886-3188
graha023@bama.ua.edu

EDUCATION

Expected Bachelor of Science in Mechanical Engineering in May 2005
University of Alabama, Tuscaloosa, AL
GPA: 4.00/4.00
Advanced Academic Diploma
Central High School, Tuscaloosa, AL
GPA: 4.00/4.00

WORK EXPERIENCES

University of Alabama; January 2002-present
Student grader; grade AutoCAD and graphics assignments
AmServ EMS; Summer 2002
EMT-Basic/Driver; cared for patients, drove an ambulance
Warrior Family Practice Associates; December 2001-August 2002
Office assistant; assisted patients, answered phone, filed medical records

RESEARCH EXPERIENCES

Visualization of Aerial Ozone Data; Fall 2002
Worked to display the spatial distribution of ozone and ozone migration patterns
Clinical Health Appraisal Data Analysis; January 2003-present
Working to analyze clinically collected health data and test hypotheses

ACTIVITIES AND HONORS

President's List; Fall 2001-present
Dean's List; Fall 2001-present
Emerging Leaders Member; 2001-2002
Emerging Leaders Junior Advisor; 2002-present
Lambda Sigma member; 2002-present
University Honors Program; Fall 2001-present
Computer-Based Honors Program; Fall 2001-present
Phi Eta Sigma member; 2002-present
Gamma Beta Phi member; 2002-present
National Society of Collegiate Scholars member; 2002-present

COMMUNITY SERVICE

Volunteer with Alabama Fire College as EMT-Basic at University of Alabama home football games and other sporting events; Fall 2001-present
Volunteer projects through Emerging Leaders and Lambda Sigma; Fall 2002-present

COMPUTER SKILLS

Esri ArcView GIS, C++, AutoCAD, Surfer, PSI-Plot, Microsoft Excel, Microsoft Word

Yuanhong Guan
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Tuscaloosa, AL 35401
(205) 391-9984 (H), 348-9518 (W)
guan001@bama.ua.edu

OBJECTIVE

To obtain intern or full-time mechanical engineer position for noise, vibration testing, analysis and control

SUMMARY

- **Ph.D.** degree in the field of noise and vibration, mechanical engineering
- **5 years** of analytical and experimental experience in vibration noise measurement, analysis and control
- Strong experience on modal analysis, order analysis, **operating deflection shape** techniques to **NVH troubleshoot** and **root cause** analysis
- Fluency in using noise vibration data acquisition and analysis systems from **SDRC Ideas**, **LMS Cada-x** and **B&K Pulse**
- Strong experimental techniques in selecting, using and maintaining lab equipments and peripherals
- Proficiency in Matlab and Simulink, C++, Java programming and application development
- Experience in finite element analysis packages **IDEAS** and **ANSYS**
- Over 9 published journal papers and 4 conference papers

EDUCATION

08/2000 – 12/2003 **Ph.D. Engineering** The University of Alabama, Tuscaloosa, AL
Mechanical Engineering Dynamics, Vibration & Acoustics
Overall GPA: **4.00/4.00**

09/1992 – 03/1995 MS Engineering Shanghai Jiao Tong University, Shanghai, China
Mechanical Engineering Vibration, Shock and Noise
Overall GPA: **3.60/4.00**

09/1988 – 07/1992 BS Engineering Shanghai Jiao Tong University, Shanghai, China
Mechanical Engineering Thermal Power Plant
Overall GPA: **3.66/4.00**

WORK EXPERIENCE

08/2000 – present **The University of Alabama,** Tuscaloosa, AL
Research Assistant The Center for Advanced Vehicle Technologies (CAVT)

Experimental and numerical study of vibration control of high-power density gearbox system using smart materials and microcomputer

- Developed finite element model (**FEM**) of gear pair system that included the dynamic effects of gears, shafts, bearings and housing in Matlab and **IDEAS** separately
- Performed **modal analysis**, **transfer path**, **operation deflection shapes** techniques using **IDEAS** to identify the most significant vibration transmission path
- **Correlated FEM** models with experimental frequency response functions (**FRF**)
- Studied sound quality of gear whine noise using binaural acoustic head
- Developed, simulated and compared several actuation concepts and control algorithms to control gear whine noise and vibration in Matlab / Simulink environment
- Developed GUI interface to transfer and display parameters / data between PowerPC microcomputer and host computer in **Matlab**
- Performed experimental study of whole hardware-in-the-loop system
- Demonstrated ability to significantly reduce gear housing vibrations using active control system

Performed brake squeal noise analysis, modeling, prediction and control in a group

03/1995 – 08/2000 **Shanghai Jiao Tong University** Shanghai, China
Lecturer National State Key Laboratory of Vibration, Shock, and Noise

- Identified noise sources, transmission path and calculated noise sources' contribution of diesel engine using scanned sound intensity, order tracking / analysis and multiple coherence technology using **LMS Cada-x**
- Performed **noise / vibration transfer path analysis** from engine mount to interior noise and proposed structural modification methods using **LMS Cada-x** system
- Evaluated and identified noise source contribution of parts of HVAC air conditioner
- Analyzed automobile **tire noise** generation mechanism, predicted tire radiated noise, optimized tire tread pattern and demonstrated significant tire noise reduction
- Managed, maintained and calibrated noise vibration instruments, peripherals such as data acquisition systems, transducers, signal conditioners, filters, DAT recorders, oscilloscope from **B&K**, PCB, TEAC, SONY and Tektronix
- Performed experimental study of duct noise active control system using several active adaptive control algorithms and implemented in DSP board of TI TMS 320C50 and showed significant noise reduction
- Lectured in Fundamental Acoustics, Engineering Vibration Noise Measurement and Control, Advanced Programming in C++ and Java to several classes of about 50 undergraduate students each
- Designed and tutored several noise and vibration experiments including sound pressure, sound intensity measurement in **semi-anechoic** room, order analysis and fault diagnosis of rotor system for undergraduate students
- Led group of 9 to design / develop software package of architectural **CAD** system in Windows 95 (C++). Was responsible for overall data structure and GUI development

08/1997 – 07/1999 **Data Physics Corporation,** Shanghai, China
Technical Support Engineer (part time)

- Supported pre- and post-sale of dynamic signal analyzers and vibration controller
- Provided on-site trainings and short courses to end-users on principle and operation of dynamic signal analyzers such as FFT, octave analysis, order analysis and vibration controllers
- Performed on-site demonstration and test of random, sine and shock response spectrum (SRS) vibration control using large electrodynamic shakers and slip tables

SELECTED JOURNAL PUBLICATIONS

- Y.H. Guan, T.C. Lim and W.S. Shepard Jr., "Experimental active vibration control of a gearbox system", Submitted to *Journal of Sound and Vibration*, 2003
- Y.H. Guan, M. Li, T.C. Lim and W.S. Shepard Jr., "Comparative Analysis of Actuator Concepts for Active Gear Pair Vibration Control", *Journal of Sound and Vibration*, 2003 (in press)
- Y.H. Guan, T.C. Lim and W.S. Shepard Jr., "Direct hybrid adaptive control of gear pair vibration", *Journal of Dynamics Systems, Measurements, & Control*, 2003 (in press)
- Y.H. Guan, T.C. Lim, "Comments on the Stability Analysis of Pantograph-Catenary System Dynamics", *Journal of Sound and Vibration*, 247(3), p 527-536, 2001
- D. Chen and Y.H. Guan, "Development of Active Noise Control", *Applied Acoustics*, 20(4), p 1-5, 2001
- D. Chen, E. Liu, Y.H. Guan, "ANC System with FU-LMS Algorithm and its Performance Analysis", *Journal of Shanghai Jiao Tong University*, 34(4), p499-502, 2000
- Y.H. Guan, Q. Dong, "Tire Noise-generating Mechanism at Constant Speed", *Tyre Industry*, 19(3), p 146-150, 1999
- Q. Dong, Y.H. Guan, "The Technique of Low-Noise Tire Design", *Tyre Industry* 18(11), p 670-675, 1998
- Q. Dong, Y.H. Guan, "Outside Vehicle Tire Noise Measurement and Evaluation", Tyre Industry 19(5), p 259-262, 1998

SELECTED CONFERENCE PAPERS

- Y.H. Guan, M. Li, Teik C. Lim and W.S. Shepard Jr., "Comparison of Actuator Designs for Active Vibration Control of a Gear Pair System", Proceedings of the SPIE 9th International Symposium on Smart Structures and Materials –Modeling, Signal Processing, and Control, Vol. 4693, p 372-383, San Diego, California, 2002
- Y.H. Guan, Teik C. Lim and W.S. Shepard Jr., "Active Vibration Control of a Gear Pair Using a Direct Adaptive Control Method", Proceedings of the SPIE 9th International Symposium on Smart Structures and Materials – Modeling, Signal Processing, and Control, Vol. 4693, p 360-371, San Diego, California, 2002
- D. Chen; Y.H. Guan, E. Liu, X. Dai, "A Study of a Feed-forward H infinity Active Noise Control System Based on State Space", The 6th International Congress on Sound and Vibration, Copenhagen, p 1549-1556, July 5-8, 1999
- Y.H. Guan, D. Chen, "The State of Art of Active Noise Control and Possible Future Development", The 8th National Congress of Vibration and Noise Control in China, Qingdao, P.R.China , May 20-26, 1999

COMPUTER SKILLS

- Program languages: **C++**, C, DSP Assembly, **Java** and HTML
- Operating systems: Windows 9X/NT/XP, UNIX, MSDOS
- Software packages: **Matlab**, Maple, **IDEAS**, ANSYS, **AutoCAD**, MS Office, FrontPage, Photoshop

INSTRUMENTATION

- Multi-channel dynamic signal analyzers (B&K, HP, Ono Sokki) and VXI data acquisition systems
- Modal shakers, impact force hammer
- Laser scanning vibro-meter (Poly tech)
- TEAC DAT recorders
- B&K Binaural Head
- Dynamometer
- All types of NVH transducers and signal conditioning units, filters and oscilloscopes

HONORS & MEMBERSHIP

- **Outstanding Graduate Research Award** by a Doctoral Student, the University of Alabama (2003)
- Graduate Student Research and Travel Award, the University of Alabama (2002)
- Qualified Software Engineer (Senior Programmer) by Ministry of Personnel in China (1996)
- Excellent Graduate Student of Shanghai, China (1992)
- Excellent Student of Shanghai Jiao Tong University, China (1991)
- ASME (2002-present)

AJAYKUMAR GUPTA

417 Reed Street, Apt. # 1A, Tuscaloosa AL - 35401
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Objective

Seeking a full time job allowing application of my knowledge and work experience, bringing benefits and profit to my employer.

Education

Jan 2001 onwards — **Master of Science in Mechanical Engineering** (Expected Date of Graduation: Dec. 2003)
The University of Alabama, Tuscaloosa, Alabama
Courses include: Heat Transfer, Fluid Mechanics, Classical Thermodynamics, Internal Combustion Engines, Finite Element Methods, Matrix and Vector Analysis, Radiation Heat Transfer, Engineering Statistics.

1996-1997 — **Post Graduate Diploma in Financial Management**

1992-1996 — **Bachelor of Engineering (Mechanical Engineering)**
Yeshwantrao Chavan College of Engineering, Nagpur, India
Courses include: Internal Combustion Engines and Automobiles, Unconventional Energy Systems, Refrigeration and Air Conditioning, Operation Research Techniques, Automatic Control, Energy Conversion, Machine Design, Fluid power, Manufacturing Processes, Strength of Materials, Metallurgy, Theory of Machines, Engineering Drawing.

Work Experience

At The University of Alabama, Mechanical Engineering Department, Tuscaloosa, Alabama

Spring 2003 — **Teaching Assistant** for "Engineering Analysis", "Energy Systems Design" courses and **Network Administrator** for Mechanical Engineering Department.

Fall 2002 — **Teaching Assistant** for "Engineering Analysis" course and as **Network Administrator** for Mechanical Engineering Department.

Summer 2002 — **Teaching Assistant** for "Thermodynamics I", "Thermodynamics II", "Heat and Mass Transfer" courses and as **Network Administrator** for Mechanical Engineering Department.

Spring 2002 — **Network Administrator** for Mechanical Engineering Department.

Teaching Assistantship work involved of conducting classes, grading assignments, conducting exams and maintaining websites for the classes.
Network Administrator, work involves server administration, software installations, troubleshooting, setting up new computers, backups and all other network related work.

June 1997 to — Worked as an Engineer with Joglekar & Associates, Nagpur, India a company that is certified by Government of Maharashtra Industrial Safety Department for Inspection, certification and maintenance of lifting devices such as cranes, hoists and other mechanical devices. The company is engaged in performing these jobs in coal fired power units in Maharashtra and Madhaya Pradesh. Responsibilities comprised of inspection and testing of all these devices. Also repaired and maintained of all these devices followed by testing and certification. Personally involved in Chandrapur Thermal Power Station, which is the biggest Thermal Power Station in India with Installed Capacity of 2380MW.

Projects

- **Optimization of a thermally radiating fin using Genetic Algorithms.**

For a given set of conditions, the task was to develop a computer program capable of optimizing the heat transfer associated with a two dimensional radiating fin assembly. It was assumed the only mode of heat transfer was radiation heat transfer and that the fin is radiating to a environment at zero Kelvin.

- **Influence of temperature and relative humidity on parameters of natural heat transfer coefficient.**

This study was to examine the influence of temperature and relative humidity on the parameters of natural heat transfer coefficient. Dominant non-dimensional numbers identified are Nusselt number, Grashof Number, Prandthl number and Relative Humidity. Results were presented for various free convection empirical correlations for immersed geometries. The influence of relative humidity and the immersed body temperatures were investigated in details. The results for the effect of relative humidity and body temperatures on Nusselt number for different immersed bodies are presented. An appreciable change in the value of Nusselt number was observed. The results were validated with the results obtained from reference journals.

- **Estimating thermocouple error measurements using FIDAP.**

Thermocouples are extensively used for temperature measurements. Hence, it is not only important that the measurements obtained are accurate but also to know the thermocouple measurement errors. The purpose of this project was to estimate the thermocouple measurement errors using FIDAP for different gird density and to make the mesh a gird independent. This was done for different types of thermocouple.

- **Fabrication and testing of catalytic convertor system.**

This project involved fabrication of a catalytic Convertor, testing of four Oxides for prolonged period to study its performance in an Unsupported Catalytic Convertor System, and comparison of results obtained for various oxides.

Computer Skills

Programming Languages	C, C++, COBOL, FORTRAN, MATLAB.
Software	Office 2000, XP (Word, Excel, PowerPoint, Access). Photoshop, Maple 7, MINITAP 13.
Modeling Tools	AUTOCAD.
Web Related	HTML, Front Page 2002.
Operating Systems	DOS, Windows95/98/ME, NT.
Network Operating System	Completed Microsoft Official Curriculum (MOC) for WINDOWS 2000 Server/ Professional.

References Available upon request.

Ashish Gupta

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Objective

- Seeking a challenging and rewarding position as a thermal engineer in a dynamic, growth-oriented organization to employ and enhance my technical and analytical skills.

Profile

- MS in Mechanical Engineering with experience in combustion engineering, computational fluid dynamics, thermal systems, computer programming, designing and commissioning of experimental setup, diesel engine experiment simulation, data acquisition systems.

Education

- Master of Science in Mechanical Engineering GPA: 4.0/4.0
  The University of Alabama, Tuscaloosa, AL
  Expected Graduation: December, 2003
  Thesis: An experimental investigation of droplet evaporation and combustion under supercritical conditions.
  Relevant Courses: Computational Fluid Dynamics, Intermediate Fluid Mechanics, Advanced Internal Combustion Engines, Principles of Combustion – I, Classical Thermodynamics, Radiation Heat Transfer, Partial Differential Equations, and Advanced Information Systems.
- Bachelor of Technology in Mechanical Engineering with Honors GPA: 3.6/4.0
  National Institute of Technology (formerly REC), Kurukshetra, India
  Graduated: June, 1999

Academic Experience

- Graduate Research Assistant 08/2002 – Present
  - Design and fabrication of combustion bomb in order to simulate the test conditions in a diesel engine.
  - Currently studying the behavior of droplet evaporation and combustion from the images taken using high speed camera.
- Graduate Teaching Assistant 07/2002 – 08/2002
  - Teaching Assistant for undergraduate course "Dynamic Machine Components"
- Graduate Teaching Assistant 06/2002 – 07/2002
  - Teaching Assistant for undergraduate course "Dynamic Systems"

Work Experience

- Assistant Manager at "Escorts Limited" 07/1999 – 06/2001
  Escorts Limited is a leading ISO 9001 automobile company in India dealing with the manufacturing of Tractors, Heavy Machinery and automobile spare parts.
  - Technical assistance to vendors for productivity improvement.
  - Development of new vendors for source duplication.
  - Inventory level fixation, ROL, Monitoring and control for 'A' Category Components.
  - Strategic planning to manage the product flow in supply chain.

Internships

- Engineer trainee at Panipat Thermal Power Station, India. 06/1998 – 08/1998
- Engineer trainee at Hero Cycles Limited, Ludhiana, India. 07/1997 – 08/1997

Projects

- Developed computational fluid dynamics (CFD) model in FORTRAN to study the buoyancy induced flow in a rotating chamber in zero gravity environment.
- Developed a model in FORTRAN for solving two dimensional Navier-Stokes equations for driven cavity with specific boundary conditions.
- Developed a mathematical model of one dimensional laminar diffusion flame in Visual Basic 6.0 that accounts for thermal radiation and calculates irreversibilities associated with it.
- Developed a Decision Support System (DSS) for Inventory management in Visual Basic 6.0 and MS Access.
- Computer aided selection of cars using MADM approach developed in 'C'.

Technical Publications/ Presentations

- Gupta, A., Baker, J., and Sharif, M.A.R., "Numerical Analysis of Natural Convection in an Enclosure with Rotationally Produced Artificial Gravity," Numerical Heat Transfer Part - A (Submitted).
- Gupta, A., Sharif, M.A.R., and Baker, J., "Buoyancy induced flow in a rotating enclosure in zero gravity environment," 42nd AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada, January, 2004 (Accepted).
- Gupta, A., and Baker, J., "Thermal radiation and diffusion flame irreversibilities," proceedings of the 2003 Joint Meeting of the U.S. Sections of the Combustion Institute, 16-19 March 2003, Chicago, Illinois.
- Gupta, A., "Diffusion flame irreversibilities," presented at Sixth Annual Graduate Student Research Conference, 11-13 March 2003, Tuscaloosa, Alabama.

Computer skills

- Operating Systems DOS, Windows 95/98/2000/XP
- Programming Languages C++, FORTRAN, Visual Basic 6.0
- Engineering Packages AUTOCAD 2000, MATLAB 6.1, FIDAP
- RDBMS Oracle 8i, MS Access
- Other Applications MS Office, LABVIEW 6.1, Tecplot 9.0, SigmaPlot 2001

Honors and activities

- Won second prize in paper presentation at the sixth annual graduate student research conference held at The University of Alabama.
- Member of Society of Automotive Engineers (SAE).
- Member of social service agency National Social Service (NSS), India (1997-1998).

References

- Available upon request.

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Alison L. Haefele

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Troy, NY 12180
(518) 274-9404

OBJECTIVE

To obtain a summer internship related to mechanical engineering

EDUCATION

Rensselaer Polytechnic Institute, Troy, NY
B.S. in Mechanical Engineering, May 2005
Minor in Economics
GPA: 3.86 / 4.00

RELATED COURSEWORK

- Engineering Graphics and Computer Aided Design, Fall 2001 – Used SolidWorks to create 3D parts and assemblies of a computer mouse from dimensioned drawings
- Engineering Processes, Spring 2002 – Built an aluminum cannon using machines such as the lathe, drill press, horizontal and vertical mills
- Introduction to Engineering Design, Spring 2003 - Worked with a team to design and build a robotic ping pong player
- Strength of Materials, Engineering Dynamics, Thermal and Fluids Sciences, Elements of Mechanical Design, Material Systems Laboratory

WORK EXPERIENCE

Co-op, Remington Arms Company, Inc., Ilion, NY (Summer 2003)

- Researched and gathered quotes for variable-speed peck drills needed to obtain the SFM values corresponding to the various drill sizes and extend the life of the drills
- Measured various gun features (i.e. rib straightness and barrel bend)
- Created visual guides for gauging the barrel cuts made by the CNC lathe

Summer Help, Remington Arms Company, Inc., Ilion, NY (Summer 2002)

- Operated the shotgun mills for one month
- Aided the Engineering Co-ops
  - used various instruments to measure the straightness of the gun barrels throughout the assembly process
  - helped design and draw a vice in SolidWorks to hold the barrel reamer rod while welding it to the reamer

LEADERSHIP EXPERIENCE

RPI Society of Women Engineers
Treasurer, June 2003 to present

- Organize and record income, expenditures, reimbursements, and financial reports for two bank accounts
- Help to coordinate SWE events to attract and interest members

RPI Archer Center for Student Leadership and Development
Professional Leadership Program (PLP)

- Learn valuable leadership skills from a qualified instructor and weekly established guests (CEOs, Managers) while emulating a work environment

AWARDS

- R.P.I. Medal Scholarship
- Valedictorian Ilion High School 2001

SKILLS

- Experience with Microsoft Excel, Microsoft Word, Microsoft Power Point, Maple, SolidWorks 2001 Plus
- Proficient in Spanish
- Reliable, Organized, Creative

JESSIE HANVEY

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Eva, Al 35621
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Local Phone: (205) 553-2150
E-mail: jhanvey@lycos.com

Education

The University of Alabama — Tuscaloosa, Al

Bachelor of Science Degree in Mechanical Engineering

- Expected Graduation: May 2004
- Current GPA: 3.72/4.0
- Dean's List Fall-00/Spring-01/Summer-03, President's List Summer-02

Work History

August-02 – December-02 **Cerro Wire and Cable Co. Inc.** Hartselle, AL

Extrusion Department Process Engineering Co-Op

Aided the Engineering Department in lean manufacturing projects, process improvements, design implementations, data analysis, and scheduled checks of equipment at a 300 employee wire manufacturing plant.

- Wrote procedure and designed hardware to comply with UL standards in the packaging area
- Responsible for $120K in tooling expenditures in 2002
- Responsible for monthly equipment checks on each line
- Analyzed daily scrap data to pinpoint problem areas

January-02 – May-02 **Cerro Wire and Cable Co. Inc.** Hartselle, AL

Extrusion Department Process Engineering Co-Op

- Created setup sheets so each production line would have benchmark settings
- Aided in conception of a tooling budget to cut spending by 20% over 2001
- Managed Extrusion inventory of tooling and supplies worth $250K
- Worked on various lean manufacturing design projects

May-01 – August-01 **Cerro Wire and Cable Co. Inc.** Hartselle, AL

Copper Department Process Engineering Co-Op

- Designed die holder for copper department rod mills
- Designed solution plugs for copper department drawing machines
- Worked in the Quality Control Lab making sure products met UL standards

Summary of Computer Skills

- Windows 95-XP
- Microsoft Power Point
- Microsoft Excel
- Microsoft Word
- Internet
- Matlab
- Maple
- Auto-Cad

Awards/Memberships

- President's Cabinet Scholarship
- Chevron Mechanical Engineering Scholarship
- Boeing Mechanical Engineering Scholarship
- American Legion Scholarship
- Alabama Cattleman Scholarship
- UAW/GM Scholarship
- Society of Automotive Engineers
- American Society of Mechanical Engineers
- American Society of Heating, Refrigeration and Air-Conditioning Engineers
- Pi Tau Sigma National Mechanical Engineering Honor Society

References Available Upon Request

Brandon Hartley

(205) 310-7330
315 Cedar Crest Sq. Apt E
Tuscaloosa, Alabama 35401

Summary of Skills

Independent, creative team member needing little supervision and minimal training. Intuitive and creative problem solver good at time management and networking. Pro-active in job bidding, price negotiations, and project supervision. Worked with two jobs throughout college career.

Education

The University of Alabama, Tuscaloosa, Alabama
Bachelor of Science Mechanical Engineering/ Minor in History
GPA: 2.8 Graduation: May, 2005

Mississippi State University, Starkville Mississippi
Three years of School of Architecture and Design

Shelton State Community College, Tuscaloosa, Alabama
Two-year Computer Aided Drafting Degree

Experience

Phifer Wire Products, Inc., Tuscaloosa, Alabama
Computer Drafting and Engineering Internship, 1996-1999, 2002-Present
Design of mechanical parts for larger projects, and supervising completion of those projects including bids, design, scheduling, pricing and installation. Also, research and development for upgrades of in-plant applications.

L.I. Smith and Associates, Starkville, Mississippi
Civil Engineering and Surveying Internship, 1999-2001
Computer design of highway 82 bypass around Starkville including right of ways, grades and slopes of road, drainage, off and on ramps, and surveys.

Southern Heat Exchanger, Inc., Tuscaloosa, Alabama
Computer Drafting and Engineering Internship, 1995-1996
Computer aided design of heat exchanger units including flow rates, tube-sheets, bellows, and inlet/outlet layout.

Computer Skills

AutoCAD 11,12,13,14,2000,Mechanical Desktop
Microsoft Word, Microsoft Excel, Microsoft Power Point, Microsoft Outlook, FORTRAN, AS400, SAP

BARBARA HATTEMER

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Prattville, AL 36067
(334) 365-6935

Objective

To obtain a position relating to energy optimization, addressing topics such as sustainable building design, energy management and conservation, utilization of modern HVAC design including "green" technologies such as geothermal heat pump systems, and alternative energy sources such as wind and solar energy.

Education

Master of Science: Mechanical Engineering
The University of Alabama GPA: 4.00/4.00
Expected Date of Graduation: May 2005
Project and Thesis Description: The Development of Design Methods and Tools for Surface Water Heating and Cooling System
Related Electives: ME 591 – Ground Source (Geothermal) Heating and Cooling

Bachelor of Science: Mechanical Engineering
The University of Alabama GPA: 3.69/4.00
Date of Graduation: May 2003
Related Electives: ME 407 – Fundamentals of Heating, Refrigeration, and Air-Conditioning
ME 416 – Energy Conservation
ME 415 – Energy Systems Design

Passed Fundamentals of Engineering Exam, April 2002

Senior Design II, Spring 2003 – Designed a geothermal heat pump system to meet the heating and cooling demands of the Student Projects Building on the University of Alabama campus, and assisted in overseeing the installation of all components.

Experience

Graduate Research Assistant, Summer 2003
University of Alabama, Dept. of Mechanical Engineering
Graduate research assistant for Dr. Steve Kavanaugh.

Undergraduate Research Assistant, Spring 2003
University of Alabama, Dept. of Mechanical Engineering
Undergraduate research assistant for Dr. Steve Kavanaugh.

Engineering Intern, Summer 2002
Hattemer, Hornsby, & Bailey, P.C., Montgomery, Alabama
Calculated HVAC cooling loads and designed layout of ductwork for several projects including the 350,000 sq ft Criminal Justice Center of the State of Alabama. Assisted in drawing ductwork layouts in AUTOCAD. Analyzed existing chilled water piping systems and designed replacement piping systems including a renovation of Gorgas Library at the University of Alabama. Analyzed and calculated pump and system curves based on the existing pump data and required system data, and also sized and selected appropriate pumps. Designed Microsoft PowerPoint presentations for senior engineers.

Youth Director, Summer 2001
First Presbyterian Church, Prattville, Alabama

Remedial Math Teacher/Tutor, Summer 2000
Autauga County Board of Education, Prattville, Alabama

Professional Societies

The American Society of Mechanical Engineers (ASME)
ASME Representative for The Engineering Executive Council, Spring 2002
American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE)
President of the ASHRAE Student Chapter, University of Alabama, 2003/2004
Society of Women Engineers (SWE)

Honors and Activities

Alpha Lambda Delta Honor Society
Golden Key International Honour Society
National Society of Collegiate Scholars Honor Society
Phi Eta Sigma Honor Society
Pi Tau Sigma Mechanical Engineering Honor Society, Secretary 2002/2003, President 2003/2004
Tau Beta Pi Engineering Honor Society
University of Alabama Dean's List
University of Alabama President's List

Missions Team Leader for Calvary Baptist Church College Ministry, 2 years
Calvary Baptist Church Orchestra Member, 3 years

Scholarships and Fellowships

Undergraduate
Kiddie College Scholarship
NASA Space Grant Scholar, 2001/2002 & 2002/2003
University of Alabama Presidential Scholarship
University of Alabama College of Engineering Scholarship
University of Alabama Department of Mechanical Engineering Scholarship
USAA Academic Scholarship

Graduate
University of Alabama Alumni Association Academic Fellowship, 2003/2004
University of Alabama Dept. of Mechanical Engineering Research Assistantship, Summer 2003
ASHRAE Grant-in-Aid Research Grant

Computer Experience

Operating Environments
Proficient in: Windows 3x/95/98/Me/NT/2000/XP, Microsoft Word, Microsoft Excel, Microsoft Internet Explorer, Netscape Navigator, Microsoft PowerPoint,
Familiar with: AUTOCAD, HTML, Maple, Matlab, Trane Piping Designer, Trane Trace 700, Visual Basic Editor, GHPCalc, TideLoad4Z

Community Service

Organized the Operation Christmas Child donation project in 2001 and 2002 for the Calvary Baptist Church college ministry, which resulted in the donation of 450 toy filled shoeboxes to the project last year
Coordinated the Beat Auburn Beat Hunger 2002 food drive for Calvary Baptist Church college ministry resulting in the donation of 350 pounds of food to the West Alabama Food Bank
Organized and participated in a volunteer day for Habitat for Humanity for the youth group at my hometown church
Organized a coat and blanket drive for the Calvary Baptist Church college ministry benefiting the Salvation Army and several other local charities
Volunteered at the local Salvation Army and participated in numerous spring clean up projects around the Tuscaloosa community
Volunteered at the Big Oak Boys Ranch in Rainbow City, Alabama

References

Available upon request

JENNIFER HUNT

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Permanent Address:
5360 Wayne Place SE
Port Orchard, WA 98367
360-871-6563

Objective: To obtain full-time employment as a Mechanical Engineer; mechanical systems analysis, troubleshooting, and design.

Education:

B.S. Mechanical Engineering, anticipated: May 2004 (major GPA: 3.3)
Minor: Piano Performance, Honors College
Washington State University, Pullman, WA

Binghamton University, Binghamton, NY
National Student Exchange, Fall 1999

Engineer in Training / Fundamentals of Engineering Exam, April 2003

Professional Experience:

Northwest Airlines, Minneapolis, MN
DC9 Mechanical Systems, Engineering Co-op, May - December 2003

- Conducted electromagnetic interference testing of cell phones and the cockpit voice recorder with engineers, pilots, and mechanics. As a result, obtained FAA approval for NWA passenger cell phone use upon aircraft landing.
- Coordinating with FAA, flight operations, scheduling, and flight crew to conduct 80 Reduced Vertical Separation Minimum flight tests from the DC9 cockpit.
- Wrote up flight test plan for DC9 aft cabin noise in response to a customer complaint, and flew on aircraft to collect data. Doing statistical analysis of data and discussion of results with the director of engineering and power plant engineering.
- Completed reliability/cost analysis for DC9 potable water winter freeze protection. Building business case to request funding for a system design modification for 170 aircraft fleet.
- Assisted cabin systems group, in-flight group, and marketing to design valances to block light entering the first class cabins for passenger comfort.

Boeing Commercial Airplanes Propulsion Division, Seattle, WA
Auxiliary Power Unit (APU) Group - 737s, Intern, Summer 2001

- Wrote flight test configuration change.
- Troubleshot mechanical fleet problems of airline customers.

Alaska Airlines, Seattle-Tacoma International Airport, Seattle, WA
Ramp Service Agent, May - January 2000

- On 4-person team for aircraft pushbacks, marshalling, handling baggage and air cargo.
- Reconfigured 737-200s for freight.

Computer Skills:

Excel, Word, PowerPoint, Matlab, AutoCAD, ProE, CATIA, Visual Basic, LabVIEW

Community Service:

Kitsap Humane Society, Animal Shelter Volunteer, Silverdale, WA

Activities: Marathons, Private Pilot's License preparation, Cross Country Team (Binghamton U., Fall 1999)
Band - Percussion (U. Minnesota, Fall 2003)

JEREMY HUNTER

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Permanent address:
104 Madrid St.
Saraland, Alabama 36571
(251) 679-0294

Education

Bachelor of Science Mechanical Engineering
University of Alabama, Tuscaloosa, Alabama
Expected graduation: May 2004
GPA: 3.3/4.0

University of South Alabama, Mobile, Alabama
Fine Arts Courses (1997-1999)

Experience

Co op Position, Systems Engineering Department
Southern Company, Southern Nuclear Division
Plant Hatch (Spring 2000, Fall 2000)
Assisted engineers with preventive maintenance and outage planning
Certified for new fuel rod inspection
Resolved engineering department reports to correct faulty conditions in the plant
Reviewed plant drawings
Assisted with logic testing of safety systems for reactor
Target Corporation (January 2002-present)
Level One Sales Representative
Electronic Department
Cashier trained
Kimberly Clark
Mobile Operations, Tissue Mill (Summer 1999)
Summer Work Student, Tissue Finishing

Computer Skills

AutoCAD 2000, Matlab, Inventor, Microsoft: Word, Excel, Outlook, PowerPoint

Awards, Honors, Memberships

Pi Tau Sigma Mechanical Engineering Honor Society, 2002
American Society of Mechanical Engineers, 1999
Society of Automotive Engineers, 2002

- Designing chassis for SAE Formula Team

Alpha Theta Chi, Freshmen Honor Society, 1998
Department of Music Scholarship (University of South Alabama)
Dean's List

References Available upon request

MATTHEW A. JOHNSON

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SUMMARY

Dynamic and team oriented mechanical engineer with three years of CNC, manufacturing, and computer based experience desiring an engineering position in design and fabrication or process development and improvement.

EDUCATION

Masters of Science: Mechanical Engineering UNC Charlotte, August 2003
Outstanding Mechanical Engineering Graduate Student 2001-2002
Bachelor of Science: Mechanical Engineering University of Alabama, May 1999

RESEARCH

Application of the ADAMS (Automatic Dynamic Analysis of Mechanical Systems) software to model a SAE (Society of Automotive Engineers) student formula vehicle.
Analysis performed:

- Obtained shock data from Roehrig shock dynamometer
- Performed straight line behavior, swept-sine steer, and constant radius cornering simulations
- Correlated simulation findings with CDS data acquisition
- Tuned suspension components using design of experiment studies

COURSEWORK

Applied Engineering Mathematics, Vibrations, Mechanism Analysis, Mechanical Design, Design Experimentation, Theory of Elasticity, Heat Conduction, Aerodynamics

EXPERIENCE

D. P. Technology Charlotte, NC
Applications Engineer, Southeast Region August 1999-August 2001

- Instructed training classes on Esprit CAM software functionality, features, and usage.
- Initiated effort for improved and uniform training style, documentation, and examples.
- Set up communication between CNC machining centers and the Esprit DNC package.
- Participated in industrial trade shows with full scale presentations to audiences.
- Programmed CAM parts for wire EDM, mill 2-5 axis, and lathe 2-4 axis centers.

Hanna Steel Corporation Northport, AL
Engineer, Tube Mill Operations Summer 1998

- Designed new tooling improvements with emphasis on safety for obsolete equipment.
- Inspected bar stock for imperfections and verified quality via strength tests.
- Assisted maintenance crew with preventative and unscheduled maintenance.

Parker Hannifin Corporation (co-operative education) Jacksonville, AL
Process Engineer, Instrumentation Valve Division Summer 1997

- Drafted and sourced tools for deburring valve bodies for standardized methods.
- Created and maintained comprehensive process manuals under relevant quality standards.
- Devised workplace layouts for the arrangement of ten CNC and bar stock machines.

IBM (co-operative education) Research Triangle Park, NC
Product Specialist, PC Helpcenter Summer 1995, Spring 1996, Fall 1996

- Provided customer service via telephone support regarding the Desktop brand PCs.

COMPUTER SKILLS

Analysis:	ADAMS Car, ANSYS, Maple	*MS Office:*	Word, Excel, Power Point, Access
CAD/CAM:	AutoCAD, SolidWorks, Esprit	*Internet:*	HTML code

AFFILIATIONS

- Society of Automotive Engineers
- American Society of Mechanical Engineers
- American Society of Heating, Refrigerating and AC Engineers, Student Vice President

G. Marshall Jones

2906 Breckenridge Drive
Decatur, Al 35603
(256) 350-0605
mjones2906@charter.net

Work Experience:

- **Test Engineer** **(January 2001 – Present)**
  Boeing, Huntsville, Alabama.
  As a Test Engineer in the System Test Planning and Design Group, I am directly responsible for the development of required documentation for the Integrated Flight Tests in support of the National Missile Defense Program. My specific duties include the development of the Test Interface Control Document (TICD), Risk Reduction Flight Test Information Sheet (RRF TIS), and the Detailed Test Plan (DTP) for each test flight performed at the Kwajalein Missile Range (KMR) in the Marshall Islands. My duties require that I support the various tests as an on-site test engineer. This activity requires the development of the test related documentation such as the Daily Status Report (DSR), 4 Hour Report, and the 48 Hour Report. Duties also required me to assist other contractors in on-site activities such as Foreign Object Damage Audits and providing technical knowledge of the Missile Assembly Building (MAB) and the tooling process for assembling a Minuteman III.
- **Engineering Intern** **(June 2000 – December 2000)**
  Grimes Architects, Tuscaloosa, Alabama.
  Assisted in the design of the mechanical systems and worked as an AutoCAD drafter.
- **Telecommunications Operator** **(August 1996 – June 2000)**
  University of Alabama Telecommunications Department, Tuscaloosa, Alabama.
  Assisting and directing in coming calls to the University of Alabama.
- **Surveying Crew Member** **(May 1998 – August 1998)**
  Carr and Associates, Pelham, Alabama.
  Inspected construction projects and assisted in AutoCAD drawings.
- **Co-op Engineer** **(January 1997 – August 1997)**
  Field Engineer, GM Wilmington Plant, Wilmington, Delaware.
  Envirometric Process Controls, Inc., Louisville, Kentucky.
  Programmed the Regenerative Thermal Oxider and supervised the construction and installation of the Phosphate-ELPO system.
- **Co-op Engineer** **(May 1996 – August 1996)**
  Field Engineer, Mercedes-Benz Plant, Vance, Alabama.
  Envirometric Process Controls, Inc., Louisville, Kentucky.
  Conducted training sessions, assisted in the writing of the testing and flushing procedures, and supervised the construction and installation of the Mercedes-Benz paint shop equipment.
- **Co-op Engineer**
  Field Engineer, Dodge Belvedere Plant, Belvedere, Illinois.
  Envirometric Process Controls, Inc., Louisville, Kentucky.
  Assisted in the quality testing of the paint shop at the Dodge Belvedere Plant.
- **Co-op Engineer** **(August 1995 – December 1995)**
  Field Engineer, Mercedes-Benz Plant, Vance, Alabama.
  Envirometric Process Controls, Inc., Louisville, Kentucky.
  Assisted in the design, estimation, and supervision of the construction and installation of equipment in the Mercedes-Benz paint shop.

Education:

- Master of Science: Aerospace Engineering **(Present)**
- Bachelor of Science: Mechanical Engineering. **(December 2000)**
  The University of Alabama, Tuscaloosa, Alabama Major GPA: 3.0/4.0
- Passed the Fundamentals of Engineering Exam. **(April 2000)**
- Instrumentation Team Engineer for the Spring Loaded Exercise Device for Zero Gravity Experimentation (SLEDGE) sponsored by NASA. **(2000)**
- Structural Team Engineer for the Students Tackling Exercise Procedures for Space Station (STEPSS) sponsored by NASA. **(1999)**
- Engineering Design Instructor for SITE (Students Introduction To Engineering). **(July 2000)**

Security Clearance:

- Granted Security Clearance. **(March 26, 2001)**

Computer and Skills:

- Dos, Windows, Excel, MS-Word, Lotus 1,2,3, MS-PowerPoint, FORTRAN, UNIX, AutoCAD 2000, MATLAB, MathCAD, MS-Access, Maple, UniGraphics, Chief Architecture, Visio Professional, and Test and Evaluation System Simulation (TESS).

Honors and Activities:

- Engineering Executive Council
  President (1999-2000), Vice-President (1998-1999), and Representative (1997-1998)
- American Society of Mechanical Engineers
  Vice-President (2000)
- National Society of Professional Engineers
  Vice-President (1998-1999)
- University of Alabama Campus Civitan
  Vice-President (1997)
- University of Alabama Avanti Team
  Group Leader (1999)
- Theta Tau (Professional Engineering Fraternity)
  Chairman of Philanthropy (1998), Vice-President (1999)
- Theta Tau Southern Regional Conference (April 1998)
- University of Alabama Student Leadership Council (1999-2000)
- Counselor for the Capstone Summer Honors Program (1999)
- Conference for Future Student Leaders (April 1999)
- Society of Automotive Engineers

References: **Available upon request.**

Prabhath Kasaraneni

308 Grace St, Apt#347
Tuscaloosa
Alabama 35401 USA

prabhathk@yahoo.com
kasar002@bama.ua.edu
Phone: (205)-394-1464

Personal Profile

A **MSME** (Masters in Mechanical Engineering) with one year experience as a Technical Engineer. Eager to carve a niche in the realm of I.C.Engines, combustion, fluid mechanics and transport phenomena. A dynamic and versatile person who loves to improvise and possesses excellent communication skills. Expertise is broad in scope and includes good knowledge in the following:

- Intermediate Fluid Mechanics
- **Transport Phenomena**
- Advanced Engineering Mathematics
- **Principles of Combustion**
- **Classical Thermodynamics**
- Partial Differential Equations
- **Internal Combustion Engines**
- C++ Programming

Education

Master of Science in Mechanical Engineering (MSME) **February 2003**
(UA) University of Alabama, Tuscaloosa, Alabama
(**GPA 3.43** on a **4.0** scale)
Bachelor's Degree in Mechanical Engineering (B.Tech) **April 1999**
R.V.R&J.C College of Engineering, Guntur, India

Work Experience

Mechanical Engineering Department, UA **August 2001- February 2003**

- Modeling for calculating the ignition delay period was being done for a dual fuel engine for advanced fuel injection system using Fortran 90 for Caterpillar.
- Installation of single cylinder diesel engine with data acquisition, running the engine and collecting the data and processing and analyising the results.
- Handled setup experiments and graded papers for Thermo-Fluids Lab for the Undergraduates.
- Remodeled the present mechanical lab for the undergraduates.
- Constructed a lab for the undergraduates in Dothan by designing the experiments, taking inventory, ordering and setting up the lab.

Civil Engineering Department, UA **January 2001 – May 2001**

- Grader for the environmental course under Dr.Pauline Brown. Helped her for conducting exams, preparing power point presentation and conducting the field trips.

Mathematics Department, UA **August 2000 – December 2000**

- Worked as Mathematics tutor for a class of 25 undergraduate students.

Design Engineer, TELCO, India **April 1999 - June 2000**

- Typical duties included proto type testing, documenting design aspects, inspection of work being done and inspection of products for defects.

Technical Projects

Study of combustion **January 2001**

- A detailed study on CH_4 combustion in a constant volume heat addition, adiabatic process was done using the CHEMKIN software. The process simulates the combustion in a Homogeneous charge Compression Ignition engine (HCCI). The combustion study was made using SENKIN, one of the CHEMKIN applications and Ignition delay was calculated. SENKIN is a FORTRAN computer program that computes the time evolution of a homogenous reacting gas mixture in a closed system.

Design for combined cycle power plant **August 2000**

- Design of a combined cycle power plant for attaining maximum thermal efficiency

Solidification of casting **January 1999**

- A detailed study of the solidification of casting using the ANSYS package was done as undergraduate project. Calculating the temperatures in the mould at different points of time at different points in the mould using the package and estimating the total time it will take for complete solidification of the casting.

COMPUTER SKILLS

- **Operating Systems**: Windows NT, Windows 98, and UNIX.
- **Programming Languages**: Visual FORTRAN, C and C++.
- **Packages**: Microsoft Office, CHEMKIN, Chem Draw, PRO E and AutoCAD.

Honors and Activities

- Scholarship awarded for academic performance in Under graduation
- Secretary for Mechanical Engineering Association, and member of the accreditation committee Nagarjuna University, India.
- Took active part as a volunteer in the organization of 'Swarna Bharathi Science and Technology Exhibition' organized as a part of the 85th session of Indian Science Congress held at Nagarjuna University in January 1998.

Deborah Kellogg-Van Orden

E-mail: kellod@rpi.edu, Phone: (413) 657- 4360
Address: 204 Wiltsie House, RPI Residence, Troy, NY 12180

Objective

To obtain a full-time position in *Mechanical Engineering* with specific interests in Product Design or Manufacturing, and to explore other aspects of Mechanical Engineering

Education

Rensselaer Polytechnic Institute, Troy, NY, Expected Graduation: May 2004
B.S. in Mechanical Engineering, and Science, Technology and Society
Product Design and Innovation: a dual degree program combining Engineering and Creative Design
Cumulative GPA: 3.01/4.00, Fall 2002: 3.53, Spring 2003: 3.36

Relevant Projects & Courses

Product Design and Innovation Studios I, II, III, V, VI: Hands on design experience
Backpack Design, Cardboard Furniture Modeling, Educational Technology, Industrial Design
Introduction to Engineering Design: Universal Fitness Equipment Project
Leader for *S.T.A.R.S. Innovations* team that designed and prototyped the "Resistance Body Suit"
Inventor's Studio: Developed Innovation skills and learned about the Patent process
Public Service Internship: Volunteered at the Altamont Preschool for Deaf and Hard of Hearing Children
Thesis(Currently): Study the Social Stigma of Disabilities, Design Less Obtrusive/Intrusive Hearing Assistive Devices

Work Experience

Mechanical Engineering Co-op **January – August 2002, and June – August 2003**
Lutron Electronics Incorporated, Coopersburg, PA
- Responsible for multiple engineering projects in the field of motorized roller-shades and draperies
- Involved in all aspects of project: specification, CAD models/assemblies/drawings, tolerances, revision, life-cycle testing, prototyping, manufacturing field study, documentation, packaging, pricing, quality
- Worked closely with Purchasing, Machine Shop, Quality Departments, and several outside vendors
- Developed Plastic Molded Part (second co-op term) focusing on: manufacturability, ease of assembly, snap strength, material selection, tolerances

Six Flags New England, Island Kingdom, Agawam, MA **Summers 1998 - 2001**
Head Lifeguard - Aquatics Department Summers '00, '01
- Managed and delegated tasks to 20 lifeguards
- *Golden Chemicals Award* for maintaining pool chemical levels with highest standards
- Participated in *True Colors* Leadership Workshop

Guest Relations Representative (requested additional position) Summer '01
- Utilized problem solving and conflict management skills to resolve guest complaints

Lifeguard Summers '98-'99

Honors & Awards

United States Army Reserve National Scholar Athlete Award – honoring academic and athletic excellence
Dean's List, Pan-Hellenic Association Honor Roll
Emily Roebling Scholarship, Alumni Scholarship

Skills

Computer: ProEngineer 2001, MS Word, Excel, PowerPoint, training in SolidWorks, some C programming
Languages: American Sign Language (4 years), Spanish (5 years), Latin (4 years)

Leadership & Activities

Society of Women Engineers (member and officer from 1999 to 2003) – Vice President emeritus
Alpha Phi Sorority (from 1999 to present) – Director of Philanthropy (previously), Alumnae Chair currently
RPI Women's Mentoring Program – Active Mentor for three years
Track Team (Spring 2000, 2001, 2003) – Competitor on State level for the 400m hurdles, 2001 and 2003
Women's Rugby Club (Fall 2000- 2002) – Member of New York State Championship Team Fall 2002
Other Interests: Rock Climbing, Soccer, Swimming, Skydiving and Roller-Blading

BRETT R. KELLY

Current Address:
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Tuscaloosa, Alabama 35486
(205) 347-3060
kelly010@bama.ua.edu

Permanent Address:
8493 Shoreside Ln.
Bessemer, Alabama 35022
(205) 428-6047

EDUCATION

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, Alabama
Expected Graduation: May 2003
Cumulative GPA 3.33/4.00
ME GPA 3.46/4.00

SPECIAL PROJECTS

Senior Design Project Fall 2002: Designed and manufactured an aid to assist children with Spina Bifida get into and out of their wheelchairs and bathtubs.

Senior Design Project Spring 2003: Working on a design team to design and build a vehicle to compete in a SAE Mini-Baja competition.

EXPERIENCE

The University of Alabama, Tuscaloosa, AL.
Engineering Graphics Department
Grader for Dr. Wendell Jordan (Fall 2001 – Spring 2003).
Review and grade papers for engineering drawing and AutoCAD classes.

Americold Logistics, Gadsden, AL, April 1998 - May 2000
Licensed cold storage forklift driver with responsibility to prepare international loads for USDA inspection. Prepared documents for exporting product. Responsible for checking inbound and outbound loads.

Delphi Automotive Systems, Gadsden AL, February 1998 – April 1998
Responsible to setup and run Automatic cutter. Also performed light maintenance and all quality functions.

COMPUTER SKILLS

Microsoft Excel, Word, Power Point, Internet Explorer, Netscape Navigator, Matlab, AutoCAD, Windows 95/98/2000/ME/XP

SOCIETIES

American Society of Mechanical Engineers
Society of Automotive Engineers
Pi Tau Sigma Mechanical Engineering Honor Society

REFERENCES AVAILABLE UPON REQUEST

Raymond F. Kyle Jr.
150 Rice Mine Road Apt. A207
Tuscaloosa, AL 35406
(205)-758-2722
kyle002@bama.ua.edu

Education

University of Alabama, Tuscaloosa, Alabama
Bachelor of Science: Mechanical Engineering
Expected Graduation: May, 2005
GPA: 3.92/4.0

Work Experience

University of Alabama National Alumni Association (Present)-Administrative Assistant to the Director of Alumni Fund
Tuscaloosa Tumbling Tides- (0.5 years) Tumbling, Gymnastics, and Cheerleading Instructor;
Outback Steakhouse- (2.5 years) Take-Away Server; Busboy
Cheer Central Atlanta- (1 year) Tumbling Instructor
Performing Arts- (1 year) Coaching Assistant; Tumbling Instructor
United States Soccer Federation Referee- (2 years) Soccer Referee

Honors/Organizations

Intermediate Honors
Eagle Scout
National Eagle Scout Association
Tau Beta Pi- Outstanding Sophomore Award
National Society of Collegiate Scholars- Publicity Committee Chairman; Most Outstanding Publicity Committee Member 2001-2002
Alpha Lambda Delta
Phi Eta Sigma
Gamma Beta Phi
President's List
Dean's List
American Society of Mechanical Engineers
Student Alumni Association- Beat Auburn Beat Hunger; Kickoff on the Quad
University of Alabama Cheerleader
Intramural Soccer- 2001 Intramural Champions
Fellowship of Christian Athletes
Campus Crusade for Christ
University Christian Ministries
University Programs
Future Alumni for Traditions and Excellence

Computer Skills

AutoCAD 2000 Matlab PowerPoint Excel

Heather Landis
3822 SE Franklin St.
Portland, OR 97202
503-236-8856
hlandis2000@yahoo.com

Objective

Mechanical Engineer Position

Related Experience

Document Control Specialist/Designer: CDI Contracting, Beaverton OR 2000-2001

- Placed at Intel Corporation in Hillsboro.
- Utilized Intel's Data Management Software System to develop, maintain, and create changes to Engineering Bill of Materials.
- Researched unknown parts and matched a vendor and vendor part number for Approved Materials List information.
- Creating completed assemblies and drawings in Pro/E using ASME Y14.5-1994 standards.
- Modeled purchased parts and concept parts in Pro/E.

Designer Technician: Consolidated Metco, Portland OR 1999-2000

- Solid modeling Pro/E (3000+hr).
- Analysis of finite element results using Hypermesh and make appropriate changes to casting.
- Create and redesign aluminum castings in Pro/E (with surfaces) and CATIA.
- Create full sets of working drawings using Pro/E.

Other Experience

Materials Handling Specialist: United Parcel Service, Portland OR 1993-1999

Education

Bachelors of Science in Mechanical Engineering
Portland State University Portland, Oregon June 2004

Associate Art and Science in Industrial Design/Drafting
Portland Community College Portland, Oregon June 1999

Affiliations

Society of Woman Engineers

- Served as PSU Student Vice President (2002-2003)
- Served as PSU Student Treasure (2001-2002)
- Instrumental in organizing the student region J conference at PSU (2002/2003)

American Society Of Mechanical Engineers

- Serving as the PSU Student Vice President (2003-2004)

Awards and Accomplishments

Scholarships

- Teamsters Council #37 (for outstanding achievement)
- Angelina and Pete Costanzo Vocational Scholarship
- PCC Foundation Scholarship

Deans List (Portland Community College)
Presidents List (Portland Community College)
Honor Society (Portland Community College)

BRIAN HEITH LITTLE

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Chattanooga, TN 37421
(423) 596-3436

Alternate Address
8446 County Road 24
Fairhope, AL 36532
(251) 928-7546

EDUCATION

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, AL
Graduation: December 2001
Overall GPA 3.2/4.0
Design Projects: ME 489 – Designed a vehicle for NASA's "Great Moonbuggy Race."
ME 490 – Designed a system to transport rejected pyrites in a Power Generating Plant. Also, designed a dust suppression system to improve driving conditions around the ash-settling ponds.

Pre-Engineering
Faulkner State Community College, Bay Minnette, AL
Cumulative GPA 3.4/4.0

Personally financed 100% of college education through work, scholarships, and financial aid.

WORK EXPERIENCE

Mechanical Engineer
Tennessee Valley Authority (TVA) in Chattanooga, Tennessee
January 2002 - present
Fossil Power Group / Engineering Design Services – Work on mechanical system design projects for all eleven fossil generating plants. Use AutoCAD to model equipment changes and redesign piping systems. Involved in a feedwater heater replacement project and a condensate system relief valve study. For the SCR, Selective Catalytic Reduction, Project, create and help review Design Change Notice, DCN, documents to approve design work for construction partner. Also, for SCR Project, review all mechanical documents such as process and instrument diagrams, process flow diagrams, process design basis, and mechanical calculations.

Engineering Co-op
Alabama Power, a Southern Company, at Miller Electric Generating
Plant in Birmingham, Alabama
Alternated Semesters, January 1998 - January 2001
CBM (Conditioned Based Maintenance) Department- Performed oil analysis daily. Created reports and wrote work orders to change bad oil samples. Performed vibration, infrared, and ultra-sound analyses when needed. Assisted with MCE (Motor Circuit Evaluation) testing, motor alignments, and projects during an outage or shutdown.
Engineering Department- Coordinated project work done by contractors. Worked on print revisions for system drawings. Presented a PowerPoint presentation on "How Fuel Quality Affects Plant Performance". Involved in giving plant tours whenever needed.

Family Farm
W.A. Little and Sons Farm, Fairhope, Alabama – August 1997
Executed crop rotation schedules every year for potatoes, corn, soybeans, cotton, and wheat. Learned how to drive tractors and operate other farm equipment to aid in planting, spraying, and harvesting. Maintained a lawn care schedule for family homes. Assisted in digging graves for local cemetery.

COMPUTER SKILLS

Microsoft Excel, Microsoft Word, Microsoft PowerPoint, AutoCAD, Internet, Windows

Current Address:
301 Helen Keller blvd.
Tuscaloosa, Alabama 35404
Apt. 249
(205)347-3587
madis006@bamamail.ua.edu

Permanent Address:
311 Dixon Rd.
Flomaton, Alabama 36441
(251) 296-0895

tobiasmadison@hotmail.com

Objective	-To obtain a challenging position with a company that will encourage and allow me to grow
Education	-Mechanical Engineering -The University of Alabama, Tuscaloosa, Alabama -Expected Graduation: May 2006
Experience	-Little Caesar's Pizza, February 1998-August 1998 -Pizza Hut (Management Training), August 1998-December 2001 -University of Alabama (Student Service Representative), September 2000-May 2001 -Jefferson Davis Community College Upward Bound Program (Resident Assistant for Summer Program), May 2001-August 2001 -Ruby Tuesday's (Server), February 2001-May2003 -SMI Steel Birmingham (Co-op), May 2003-August 2003
Computers	AutoCAD 2000, C++, Microsoft Word, IE, Power Point, and Windows
Leadership	-Phi Beta Sigma Fraternity Inc. -Musician at Damascus Baptist Church (Flomaton, Alabama)
References	Available upon request

1911 Silverleaf Lane Apt. 202
Orlando, FL 32822

561-644-6553,
Macasha79@cs.com

Jennifer Long

Objective

To obtain more experience in customer service and sales, while obtaining my degree in college.

Experience

2003-Current Bed Bath and Beyond Oviedo, FL

Sales Associate

Work on the sales floor.

Assist with customer service.

Organize the store and freight.

2000-2003 Zest of the West, Ltd., Inc. Loxahatchee, FL

Assistant Manager/Sales

Worked in shipping and receiving.

Priced clothing.

Helped in ordering products for the store.

Traveled with the business in between school years.

Handled all customer service.

May 03-Jun. 03 Delray Open Imaging Delray Beach, FL

Medical Records Assistant

Filed charts and organized films and documents.
Assisted patients on the phone and in person.
Assisted front desk personnel with checking in patients.

Education

1998-2002 Santaluces Community H.S. Lantana, FL

Graduated in the top 10% of my senior class.

Earned advance placement and dual enrollment credits.

2002- Current University of Central Florida Orlando, FL

Currently a sophomore.

Working towards a major in Mechanical Engineering.

Interests

Career Development and Employment Chair for the Society of Women Engineers, and SGA Liason for the American Society of Mechanical Engineers at the University of Central Florida.

Christopher C. Lott

104 Yeager Rd.
Akron, AL 35441
Home: (205) 372-2668
Cell: (334) 507-1603
Email: clott323@cs.com

OBJECTIVE

Experienced, motivated person seeking a full-time mechanical engineering position with progressive company.

EDUCATION

- **M.E., Global Engineering**, Old Dominion University, Norfolk, VA, 2003, GPA: 3.95.
- **M.S., Mechanical Engineering**, Dalarna University, Borlange, Sweden, 2003.
- **B.S., Mechanical Engineering Technology**, Engineering Management, Minor; Old Dominion University, Norfolk, VA, 2002, GPA: 3.62; Graduated Cum Laude.
- **Naval Nuclear Prototype**, Charleston, SC, 1995, Hands-on training environment on reactor and steam plant operations; troubleshooting of nuclear mechanical, electrical, and reactor control systems; and radiological controls and detection equipment.
- **Naval Nuclear Power School**, Orlando, FL, 1994, A 24-week intense study of nuclear plant operations, which covers reactor core principles, heat transfer and fluid flow, plant chemistry and material, mechanical and electrical systems, and radiological controls.
- **Naval Nuclear Field "A" School,** Orlando, FL, 1994, Coursework covered the following areas: physics, thermodynamics, mathematics, basic machinery, and mechanical equipment.

EXPERIENCE

COMMUNICATION SPECIALIST, VA Army National Guard, Norfolk, VA, 2000-Present

- Supervised, installed, maintained, troubleshot, and employed battlefield signal support system, SINCGARS ICOM ground radios, and the Precision Lightweight GPS Receiver.
- Supervised 5 personnel on the preventive and corrective maintenance of HQ's military vehicles.

RESEARCH ASSISTANT, ODU Research Foundation, Norfolk, VA, 2002

- Worked within a joint project between NASA, ODU, and USN involving the construction of an electromagnetic levitation machine for the testing of submarine models under high pressures.

FINAL ASSEMBLY TECHNICIAN, Varian Semiconductors Inc., Glouster, MA, 1999

- Performed the construction, startup, and disassembly of the medium current semiconductor.
- Performed the construction and design work on prototype of the high-current semiconductor, Vista 810.

NUCLEAR MECHANICAL OPERATOR, United States Navy, Norfolk, VA, 1993-1999

- Oversaw steam plant operations and supervised 4 engineroom watchstanders in the performance of their duties as the Chief Mechanical Operator aboard the USS Enterprise.
- Ensured quality assurance of corrective maintenance performed in the engineroom.
- Trained junior personnel on propulsion plant operations, personal and equipment safety; repairing and performing maintenance on nuclear steam plant machinery and auxiliary equipment.
- Training and experience in trouble-shooting, preventive maintenance, and repairing steam propulsion turbines, turbo-generators, centrifugal pumps, air compressors, distilling units, condensers, and system valves.
- Trained and oversaw 21 workcenter personnel on HAZMAT safety, storage, and usage as the HAZMAT Control Petty Officer, which led to 100% pass rate of every inspection and annual audit.
- Received a Navy Achievement Medal for performing replacement of the main engine poppett valves that saved the Navy over $750,000 and contributed to outstanding combat readiness.
- Received a Letter of Commendation for superior performance of small valve maintenance preservation, which resulted in a 100% turnover of all crew B valves.

TRAINING & CERTIFICATIONS

- F.E. Certification.
- Confidential Security Clearance with the United States Navy.
- Naval Sea Systems Command's Shop Qualification Improvement Program (SQIP) for machinery shaft alignment.

PROFESSIONAL ASSOCIATIONS

- Society of Manufacturing Engineers (SME).
- American Society of Mechanical Engineers (ASME).
- Golden Key.

COMPUTER SKILLS

- AutoCAD, SolidWorks, Matlab, Microsoft Project Management, CORE, Microsoft Word, Word Perfect, Quattro, Excel, PowerPoint, Microsoft Visual Basics 6.0.

CAUTION: NOT TO BE USED FOR IDENTIFICATION PURPOSES

THIS IS AN IMPORTANT RECORD. SAFEGUARD IT.

ANY ALTERATIONS IN SHADED AREAS RENDER FORM VOID

CERTIFICATE OF RELEASE OR DISCHARGE FROM ACTIVE DUTY

1. NAME (Last, First, Middle)	2. DEPARTMENT, COMPONENT AND BRANCH	3. SOCIAL SECURITY NO.
LOTT, CHRISTOPHER CORNELIUS	NAVY USN	416 | 11 | 7483

4.a. GRADE, RATE OR RANK	4.b. PAY GRADE	5. DATE OF BIRTH (YYMMDD)	6. RESERVE OBLIG. TERM. DATE
MM3	E4	75 JUN 06	Year 2000 | Month 08 | Day 30

7.a. PLACE OF ENTRY INTO ACTIVE DUTY	7.b. HOME OF RECORD AT TIME OF ENTRY (City and state, or complete address if known)
MONGOMERY MEPS, MAFB-GUNTER ANNEX, AL 36114	RT 1 BOX 69 AKRON, AL 35441

8.a. LAST DUTY ASSIGNMENT AND MAJOR COMMAND	8.b. STATION WHERE SEPARATED
USS ENTERPRISE (CVN 65) HP: NORFOLK, VA	USS ENTERPRISE (CVN 65), AT: NORFOLK, VA

9. COMMAND TO WHICH TRANSFERRED	10. SGLI COVERAGE
NAVAL RESERVE PERSONNEL CENTER NEW ORLEANS LA 70149	[ ] None Amount: $200,000.00

11. PRIMARY SPECIALTY (List number, title and years and months in specialty. List additional specialty numbers and titles involving periods of one or more years.)

MM - 3385 SURFACE SHIP NUCLEAR PROPULSION PLANT OPERATOR X X
X X X X
X X X X
X X X X
X X X X

12. RECORD OF SERVICE	Year(s)	Month(s)	Day(s)
a. Date Entered AD This Period	93	JUL	20
b. Separation Date This Period	99	JUL	19
c. Net Active Service This Period	06	00	00
d. Total Prior Active Service	00	00	00
e. Total Prior Inactive Service	00	00	00
f. Foreign Service	00	00	00
g. Sea Service	04	03	03
h. Effective Date of Pay Grade	94	FEB	16

13. DECORATIONS, MEDALS, BADGES, CITATIONS AND CAMPAIGN RIBBONS AWARDED OR AUTHORIZED (All periods of service)

NATIONAL DEFENSE SERVICE MEDAL, GOOD CONDUCT MEDAL, 2ND AWARD, SEA SERVICE DEPLOYMENT W/BRONZE STAR, ARMED FORCES SERVE MEDAL, ARMED FORCES EXPEDITIONARY MEDAL, NATO MEDAL NAVY AND MARINE CORP ACHIEVEMENT MEDAL. X X X X

14. MILITARY EDUCATION (Course title, number of weeks, and month and year completed)

MACHINIST'S MATE "A" SCHOOL (13WKS,FEB94) NAVAL NUCLEAR POWER SCHOOL (24WKS,SEP94) OPERATOR TRAINING MTS-626 (26WKS,95MAR) X X X X X X X X X X X X X X

15.a. MEMBER CONTRIBUTED TO POST VIETNAM ERA VETERANS' EDUCATIONAL ASSISTANCE PROGRAM	Yes	No
		X

15.b. HIGH SCHOOL GRADUATE OR EQUIVALENT	Yes	No
	X	

16. DAYS ACCRUED LEAVE PAID

17. MEMBER WAS PROVIDED COMPLETE DENTAL EXAMINATION AND ALL APPROPRIATE DENTAL SERVICES AND TREATMENT WITHIN 90 DAYS PRIOR TO [X] Yes [ ] No

18. REMARKS

"THE INFORMATION CONTAINED HEREIN IS SUBJECT TO COMPUTER MATCHING WITHIN THE DEPARTMENT OF DEFENSE OR WITH OTHER AFFECTED FEDERAL OR NON-FEDERAL AGENCY FOR VERIFICATION PURPOSES AND TO DETERMINE ELIGIBILITY FOR, AND/OR CONTINUED COMPLIANCE WITH, THE REQUIREMENTS OF A FEDERAL BENEFIT PROGRAM. SUBJECT TO ACTIVE DUTY RECALL AND/OR ANNUAL SCREENING." "EXTENSION OF SERVICE WAS AT THE REQUEST AND FOR THE CONVENIENCE OF THE GOVERNMENT." X X
X X X X X X X X
X X X X X X X X
X X X X X X X X
1999 144
Recorded in the Above
DISCHARGE Book & Page
Dec-29-1999 02:24:20 PM
Harold McCollum - Probate Judge
Baldwin County, Alabama

19.a. MAILING ADDRESS AFTER SEPARATION (Include Zip Code)	19.b. NEAREST RELATIVE (Name and address - include Zip Code)
104 YEAGER RD AKRON, AL 35441	DORIS JANE YEAGER 104 YEAGER RD AKRON, AL 35441

20. MEMBER REQUESTS COPY 6 BE SENT TO DIR. OF VET AFFAIRS [X] Yes [ ] No

21. SIGNATURE OF MEMBER BEING SEPARATED	22. OFFICIAL AUTHORIZED TO SIGN (Typed name, grade, title and signature)
	P. L. MADDOX, PNC, USN ASSTPERSOFF, BYDIRCO

SPECIAL ADDITIONAL INFORMATION (For use by authorized agencies only)

23. TYPE OF SEPARATION	24. CHARACTER OF SERVICE (Include upgrades)	
RELACDU AND TRANSFERRED TO NAVAL RESERVE	HONORABLE	
25. SEPARATION AUTHORITY	**26. SEPARATION CODE**	**27. REENTRY CODE**
MILPERSMAN 1910-104	MBK	RE-R1

28. NARRATIVE REASON FOR SEPARATION

COMPLETION OF REQUIRED ACTIVE SERVICE

29. DATES OF TIME LOST DURING THIS PERIOD	30. MEMBER REQUESTS COPY 4
TL:NONE	Initials

*** Certified Copy Page ***

I, W. Hardy McCollum, Judge of Probate, do hereby certify that the foregoing is a FULL, TRUE and CORRECT copy of the Instruments(s) herewith set out as same appears of record in: DISCHARGE BOOK - 1999, AT PAGE - 144 in said court.

Witness my hand and seal this 28 Day of June, 1999.

W. Hardy McCollum Jr

Judge of Probate
Tuscaloosa County, Alabama

Printed: 06-28-1999 02:26:09 PM
Optical file reference: C90.7CF

Old Dominion University

Display Transcript

This is NOT an official transcript. Unofficial transcripts are for personal use only. Courses which are in progress may also be included on this transcript.

Transfer Credit Old Dominion University Credit Transcript Totals Courses in Progress

Transcript Data

DEGREE INFORMATION

Awarded: BS in Engineering Tech **Degree Date:** May 11, 2002
Major: Mechanical Engin Technol
Minor: Engineering Management
Awarded: Master of Engineering **Degree Date:** Aug 22, 2003
Major: Global Engineering

This is NOT an Official Transcript

TRANSFER CREDIT ACCEPTED BY INSTITUTION -Top-

1993 - 1994: MILITARY CREDIT-NAVY

Subject	Course	Title	Grade	Credit Hours	Quality Points
CHEM	3ELE	ELECTIVE	TP	3.00	0.00
ENGR	1ELE	ELECTIVE	TP	3.00	0.00
GNRL	1ELE	ELECTIVE	TP	1.00	0.00
HE	1ELE	ELECTIVE	TP	2.00	0.00
MATH	162M	PRECALCULUS I	TP	3.00	0.00
MATH	163	PRECALCULUS II	TP	3.00	0.00
MET	110	INTRO-ENGINEERING TECHNOLOGY	TP	2.00	0.00
MET	120	TECHNICAL DRAWING	TP	3.00	0.00
MET	200	MANUFACTURING PROC & MATERIALS	TP	3.00	0.00

MET	210	TOLERANCE & TOOL DESIGN	TP	3.00	0.00
MET	300	THERMODYNAMICS	TP	3.00	0.00
MET	320	DESIGN OF MACHINE ELEMENTS	TP	3.00	0.00
MET	330	FLUID MECHANICS	TP	3.00	0.00
MET	450	ENERGY SYSTEMS	TP	3.00	0.00
NAVS	1ELE	ELECTIVE	TP	6.00	0.00
OTS	387	MACHINE TOOL PROCESS & THEORY	TP	2.00	0.00
PE	1ELE	ELECTIVE	TP	1.00	0.00
PHYS	111N	INTRODUCTORY GENERAL PHYSICS	TP	4.00	0.00
PHYS	112N	INTRODUCTORY GENERAL PHYSICS	TP	4.00	0.00

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	55.00	0.00	55.00	0.00	0.00	0.00

Unofficial Transcript

SP00 - FA00: TIDEWATER CC VA BCH

Subject	Course	Title	Grade	Credit Hours	Quality Points
COMM	101R	PUBLIC SPEAKING	TP	3.00	0.00
HIST	104H	UNITED STATES IN A WORLD SETTI	TP	3.00	0.00
MATH	211	CALCULUS & ANALYT GEO I	TP	5.00	0.00
MET	100	ENGINEERING GRAPHICS	TP	3.00	0.00
MET	230	COMPUTER-AIDED DRAFTING	TP	4.00	0.00
PHIL	110P	INTRODUCTION TO PHILOSOPHY	TP	3.00	0.00
PSYC	201S	INTRODUCTION TO PSYCHOLOGY	TP	3.00	0.00

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	24.00	0.00	24.00	0.00	0.00	0.00

Unofficial Transcript

Fall 2002: FOREIGN INSTITUTION

Subject	Course	Title	Grade	Credit Hours	Quality Points

ENMA	5XX2	TRANSFER WORK	TP	3.00	0.00
ENMA	5XX3	TRANSFER WORK	TP	3.00	0.00
ENMA	5XX4	TRANSFER WORK	TP	3.00	0.00

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	12.00	0.00	12.00	0.00	0.00	0.00

Unofficial Transcript

OLD DOMINION UNIVERSITY CREDIT -Top-

Summer 1997

Major: Mechanical Engin Technol

Academic Standing:

Subject	Course	Campus	Level	Title	Grade	Credit Hours	Quality Points	R
CET	200	Undergrad Off Camp In Reg Crs	UG	STATICS	A	3.00	12.00	
CET	220	Undergrad Off Camp In Reg Crs	UG	STRENGTH OF MATERIALS	C+	3.00	6.90	

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	6.00	6.00	6.00	6.00	18.90	3.15
Cumulative:	6.00	6.00	6.00	6.00	18.90	3.15

Unofficial Transcript

Summer 2000

Major: Mechanical Engin Technol

Minor: Engineering Management

Academic Standing: Good Academic Standing

Subject	Course	Campus	Level	Title	Grade	Credit Hours	Quality Points	R
MET	310	Undgrad On Campus Course	UG	DYNAMICS	B+	3.00	9.90	

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	3.00	3.00	3.00	3.00	9.90	3.30
Cumulative:	64.00	9.00	64.00	9.00	28.80	3.20

Unofficial Transcript

Spring 2001

Major: Mechanical Engin Technol
Minor: Engineering Management
Academic Standing: Good Academic Standing

Subject	Course	Campus	Level	Title	Grade	Credit Hours	Quality Points	R
CET	300	Undgrad On Campus Course	UG	ENGIN TECHNOLOGY COMPUTING LAB	B-	1.00	2.70	
ENGL	110C	Undgrad On Campus Course	UG	ENGLISH COMPOSITION	A-	3.00	11.10	
ENGL	131C	Undgrad On Campus Course	UG	INTRO-TECH & SCIENTIF WRITING	A-	3.00	11.10	
MATH	304U	Undgrad On Campus Course	UG	MATHEMATICAL METHODS	A	3.00	12.00	
MET	370	Undgrad On Campus Course	UG	AUTOMATION AND CONTROLS	B	3.00	9.00	
MET	386	Undgrad On Campus Course	UG	AUTOMATION & CONTROLS LAB	A	2.00	8.00	

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	15.00	15.00	15.00	15.00	53.90	3.59
Cumulative:	103.00	24.00	103.00	24.00	82.70	3.44

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	24.00	0.00	24.00	0.00	0.00	0.00
Cumulative:	103.00	24.00	103.00	24.00	82.70	3.44

Unofficial Transcript

Summer 2001

Major: Mechanical Engin Technol
Minor: Engineering Management
Academic Standing: Good Academic Standing

Subject	Course	Campus	Level	Title	Grade	Credit Hours	Quality Points	R
ENGL	144L	Undgrad On Campus Course	UG	AMER WRITERS, AMER EXPERIENCES	A	3.00	12.00	
MET	350	Undgrad On Campus Course	UG	THERMAL APPLICATIONS	B-	3.00	8.10	
MET	410	Undgrad On Campus Course	UG	ADV MANUFACTURING PROCESSES	A	3.00	12.00	

Term Totals (Undergraduate)

	Attempt	Passed	Earned	GPA	Quality	GPA

	Hours	Hours	Hours	Hours	Points	
Current:	9.00	9.00	9.00	9.00	32.10	3.56
Cumulative:	112.00	33.00	112.00	33.00	114.80	3.47

Unofficial Transcript

Fall 2001

Major: Mechanical Engin Technol
Minor: Engineering Management
Academic Standing: Good Academic Standing

Subject	Course	Campus	Level	Title	Grade	Credit Hours	Quality Points	R
EET	350	Undgrad On Campus Course	UG	FUND OF ELECTRICAL TECH	A	3.00	12.00	
EET	355	Undgrad On Campus Course	UG	ELECTRICAL LABORATORY	A	1.00	4.00	
ENMA	301	Undergrad Weekend College Crs	UG	ENGINEERING MANAGEMENT	A-	3.00	11.10	
ENMA	302	Undgrad On Campus Course	UG	ENGINEERING ECONOMICS	A-	3.00	11.10	
MET	335	Undgrad On Campus Course	UG	FLUID MECHANICS LABORATORY	A	1.00	4.00	
MET	415	Undgrad On Campus Course	UG	INTRODUCTION TO ROBOTICS	A-	3.00	11.10	

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	14.00	14.00	14.00	14.00	53.30	3.80
Cumulative:	126.00	47.00	126.00	47.00	168.10	3.57

Unofficial Transcript

Spring 2002

Major: Mechanical Engin Technol
Minor: Engineering Management
Academic Standing: Good Academic Standing

Subject	Course	Campus	Level	Title	Grade	Credit Hours	Quality Points	R
ARTH	121A	Undgrad On Campus Course	UG	INTRO TO THE VISUAL ARTS	A	3.00	12.00	
CET	345	Undgrad On Campus Course	UG	MATERIALS TESTING LABORATORY	B	1.00	3.00	
ENMA	401	Undergrad	UG	PROJECT MANAGEMENT	A	3.00	12.00	

		Weekend College Crs					
ENMA	420	Undgrad On Campus Course	UG	STAT CONCEPTS-ENGINEERING MGMT	A	3.00	12.00
MET	387	Undgrad On Campus Course	UG	POWER AND ENERGY LABORATORY	A-	2.00	7.40
MET	435W	Undgrad On Campus Course	UG	SENIOR DESIGN PROJECT	A-	3.00	11.10

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	15.00	15.00	15.00	15.00	57.50	3.83
Cumulative:	141.00	62.00	141.00	62.00	225.60	3.63

Unofficial Transcript

Fall 2002

Major: Global Engineering

Academic Standing:

Subject	Course	Campus	Level	Title	Grade	Credit Hours	Quality Points	R
IDS	400	Undgrad On Campus Course	UG	STUDY ABROAD	O	0.00	0.00	

Term Totals (Graduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	12.00	0.00	12.00	0.00	0.00	0.00
Cumulative:	12.00	0.00	12.00	0.00	0.00	0.00

Term Totals (Undergraduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	0.00	0.00	0.00	0.00	0.00	0.00
Cumulative:	141.00	62.00	141.00	62.00	225.60	3.63

Unofficial Transcript

Spring 2003

Major: Global Engineering

Academic Standing: Good Academic Standing

Subject	Course	Campus	Level	Title	Grade	Credit Hours	Quality Points	R
ENMA	602	Grad On Campus Course	GR	SYSTEMS MANAGEMENT	A	3.00	12.00	
ENMA	603	Grad On Campus	GR	OPERATIONS RESEARCH	A-	3.00	11.10	

		Course					
ENMA	604	Grad On Campus Course	GR	PROJECT MANAGEMENT	A	3.00	12.00
IT	620	Grad On Campus Course	GR	SYSTEMS ANALYSIS AND DESIGN	A	3.00	12.00

Term Totals (Graduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	12.00	12.00	12.00	12.00	47.10	3.92
Cumulative:	24.00	12.00	24.00	12.00	47.10	3.92

Unofficial Transcript

Summer 2003

Major: Global Engineering

Academic Standing:

Subject	Course	Campus	Level	Title	Grade	Credit Hours	Quality Points	R
ENMA	605	Grad On Campus Course	GR	PROJECT RESEARCH	A	3.00	12.00	
ENMA	695	Grad On Campus Course	GR	TPC:SYSTEM ARCHITECTING	A	3.00	12.00	

Term Totals (Graduate)

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Current:	6.00	6.00	6.00	6.00	24.00	4.00
Cumulative:	30.00	18.00	30.00	18.00	71.10	3.95

Unofficial Transcript

TRANSCRIPT TOTALS (GRADUATE) -Top-

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Total Institution:	18.00	18.00	18.00	18.00	71.10	3.95
Total Transfer:	12.00	0.00	12.00	0.00	0.00	0.00
Overall:	30.00	18.00	30.00	18.00	71.10	3.95

Unofficial Transcript

TRANSCRIPT TOTALS (UNDERGRADUATE) -Top-

	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Total Institution:	62.00	62.00	62.00	62.00	225.60	3.63
Total Transfer:	79.00	0.00	79.00	0.00	0.00	0.00

Overall:	141.00	62.00	141.00	62.00	225.60	3.63

Unofficial Transcript

RELEASE: 5.5

Bryan S. Martin

bmartin3@bcc.cba.ua.edu
314 19th Street East
Tuscaloosa, AL 35401
(205) 752-3144

EDUCATION

Candidate for **Master of Business Administration**, May 2002
The University of Alabama GPA: 3.75/4.00
Concentration: Production and Operations Management

Bachelors of Science in Mechanical Engineering, May 2000
The University of Alabama GPA: 3.28/4.00
Completed Successfully the Fundamentals of Engineering Examination

EXPERIENCE

January 2000 - Present

Project Engineer Intern, *Gulf States Paper Company, Moundville Sawmill, Moundville, AL*

- Participated on productivity team which raised production by 20%
- Managed the timely installation of equipment
- Coordinated fabrication and purchase of sub-concrete steel and equipment frames for multi-million dollar expansion

Summers 1997-1999

Associate Field Engineer, *Lucas Engineers Inc., Birmingham, AL*

- Led a three man land surveying crew
- Taught all members of crew how to use instrument and take proper notes
- Conducted interviews of industrial managers concerning storm water run-off
- Collected and treated samples of rainwater run-off

January 1997 - May 1999

Office Manager, *Alabama Alternative Fuels Office, The University of Alabama, Tuscaloosa, AL*

- Edited a bi-monthly newsletter
- Maintained database of pertinent information
- Responded to inquiries about alternative fuel vehicle viability and legislation in the state of Alabama

COMPUTER EXPERIENCE

Statistical/Production Software: Minitab
Business Tools: MicroSoft Office Suite and Outlook, AutoCAD, Microstation

OTHER

- Fluent in Spanish
- Member of Pi Tau Sigma
- Served as President of Latter-day Saint Student Association

Jamaine R. Mason

604-27th Street Southwest
Birmingham, Alabama 35211
(205) 925-5782

melmac1906@yahoo.com

301 Helen Keller Boulevard Apt# 154
Tuscaloosa, Alabama 35404
(205) 529-8688

OBJECTIVE

To obtain career growth and operate in the field of Engineering.

EDUCATION

Bachelor of Science: Mechanical Engineering — May 2005
The University of Alabama — Tuscaloosa, AL

3.255 Overall GPA/
3.499 Mechanical Engineering GPA

COMPUTER SKILLS

AutoCAD-3D/2D, Microsoft Word, Microsoft Excel, and Microsoft PowerPoint

EMPLOYMENT

Southern Nuclear Company, Inverness, AL
Electrical Power and Distribution — May/2003-August/2003
MIS Engineer

- Verified Component and Support Surveillance Schedules
- Worked with engineer on Steam Generator research
- Accomplished IPC-Viewer database information retrieval, Microsoft Excel statistical accumulation and organization, and Codeman software confirmation.

May/2002-August/2002
ITS Engineer

- Performed several tasks in Inspection Testing Services department
- Executed Microsoft Access database information entry, Syncpower information retrieval, Nuclear Regulatory Commission meeting file recovery and organization, Checworks database confirmation, and GET training

Mercedes-Benz U.S. International, Tuscaloosa, AL
Automotive Vehicle Manufacturer — August/2001-December/2001
AQS Engineer

- Performed internal audits as Quality Control Engineer
- Carried out online quality inspections to insure no vehicle defects
- Performed process confirmations to insure team members/ workers followed the company SMP (Standard Method of Production)
- Performed Time Study Analysis to cut time in the plant.

HONORS/ACTIVITES

National Society of Collegiate Scholars
Black Faculty and Staff Outstanding Student Award
ΠΤΣ Honorary Mechanical Engineering Fraternity
National Society of Black Engineers

ΑΦΑ Fraternity Incorporated, Chapter Executive Secretary
Dean's List Spring 2003
University of Alabama Talented Tenth (Student Outreach Program

References: Available upon request

ALAN M. MCREE

324 Springs Avenue
Birmingham, Alabama 35242
Home (205) 995-2144, Cellular (205) 239-2526
AlanMcRee@aol.com

Education

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, Alabama
Graduated August 2002
Passed the Fundamentals of Engineering Exam
Certified EIT

Projects

Mechanical Engineering-Senior Design I Project
Designed and Built a "Moon Buggy" for NASA's *Great Moon Buggy Race*
Placed 1st in school Competition, Top Third in National Competition

Society of Automotive Engineers
Drive Train Team for the Society of Automotive Engineers' Mini-Baja competition

Mechanical Engineering-Senior Design II Project
Designed an emergency drain system for Southern Company's Plant Bowen in Cartersville, Georgia

Experience

New Direction Communications, Part-time 1997-1999
255 Smoke Rise Trail
Warrior, AL 35180
- Installed and repaired digital and analog phone systems
- Installed computer networks
- Installed and terminated fiber optics

Saginaw Pipe Co, Inc., Maintenance Department, Part-time 1995-1996
1980 Highway 31
Calera, AL 35040
- Repaired Industrial Equipment
- Worked on several construction and design projects
- Operated heavy machinery
  Bulldozers, Front-end loaders, Cranes, Forklifts, Backhoe, Man-lift

Computer Skills

MS Office, EXCEL, PowerPoint, Explorer, 3-D AutoCAD, AutoDesk Inventor, Matlab®, Maple®

Organizations

American Society of Mechanical Engineers
Society of Automotive Engineers

PATRICK C. MERRY

pmerry50@yahoo.com

Current Address:
900 Hargrove Road Apt. 188
Tuscaloosa, Alabama 35401
(205) 752-5869

Permanent Address:
P.O. Box 664
Guin, AL 35563
(205) 468-2368

EDUCATION

The University of Alabama, Tuscaloosa, Alabama
Bachelor of Science in Mechanical Engineering
Expected graduation date: May 2004
Current GPA: 3.24/4.0

Bevill State Community College, Fayette, AL
August 1999 – May 2001
Completed 68 Semester Hours
GPA: 3.66/4.0

EXPERIENCE

Mercedes-Benz U.S. International, Inc., Vance, AL – January 2002 – August 2003
Process Engineering Co-op – Operations Engineering Assembly (OEA), May 2003 - August 2003

- Maintained daily vehicle "rattles in rear" database based on reports from Mercedes' audit department.
- Installed online sunroof vibration analysis device.
- Planned new PLC programming for door carrier to car alignment timing.
- Revised and wrote new Master Process Sheets to streamline the production process.

Development Engineering Co-op – Team Drivetrain, August 2002-December 2002

- Proposed short/long term countermeasures to improve assembly conditions for the Mercedes Benz M-Class production plant, based on comfort zones, sensibility, and available tooling.
- Collected and analyzed Noise Vibration and Harshness (NVH) data on test-drives to verify and improve problem areas such as vibrations and wind noise.
- Applied and tested transfer case dampers, steering column dampers, insulation, and new window seals for best vibration and wind noise scenarios.
- Presented project findings to the AD Team via teleconference to Germany.

Development Engineering Co-op – Team Chassis, January 2002-May 2002

- Worked with development engineers, technical specialists, and suppliers on various projects, such as measuring door-closing forces, window closing forces, and body-to-chassis alignment.
- Analyzed/Converted alignment machine data into graphical format for visual check that the Mercedes Benz M-Class' caster, camber, and toe positions were within tolerance. Sent report to Germany monthly.
- Created database for easy prototype part and part design level tracking for the development test car pool.

NTN Bower, Inc., Hamilton, AL
Manufacturing Engineering Intern – "Green" Process, May 2001-August 2001

- Studied raw steel to finished tapered roller bearing process in a lean manufacturing environment.
- Aided in implementation of new CNC machines creating floor layout proposals on AutoCAD, taking parts handling, employee comfort zones, and current coolant/scrap metal recycling system into consideration.
- Planned/purchased preliminary installation equipment for CNC expansion.
- Learned CNC-PLC programming and operation.
- Wrote training manual in "simple" terms to ease operator's transition to a new technology level.

HONORS / ACTIVITIES

University of Alabama: Hardaway Scholarship Fund, Stockman Valve Company Scholarship, Chevron Scholarship, Dean's List – One Semester, Initiated Mercedes-Benz engine donation to University of Alabama, American Society of Mechanical Engineers (ASME) – Officer/Convention Coordinator, Society of Automotive Engineers (SAE) member, Pi Tau Sigma (Mechanical Engineering Honor Society) member, American Society of Heating, Refrigeration, Air-Conditioning, and Engineers, Inc. (ASHRAE) member.

Bevill State Community College: Dean's List – Three Semesters, President's List – One Semester, Phi Theta Kappa Honors Society Member, Outstanding Engineering Student Award, Academic Achievement Award, All American Scholar Award.

COMPUTER SKILLS

Microsoft Windows 95 - XP, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Matlab, MathCAD, AutoCAD, Fortran programming, PLC programming, Internet, and some Microsoft Access and CATIA exposure.

REFERENCES AVAILABLE UPON REQUEST

TIMOTHY J. MOORE

Current Address
3611 Rice Mine Rd. NE #55
Tuscaloosa, Alabama 35406
(205) 344-5912
(205) 292-0559 Mobile
tmoore14@bellsouth.net

Permanent Address
45 Moores Lane
Parrish, Alabama 35580
(205) 686-5942

Objective

To obtain a position as a mechanical engineer with a future in engineering management.

Education

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, Alabama
Graduated: December 2002
ME GPA: 2.8/4.0 Cumulative GPA: 2.8/4.0

Design Project I: Designed and constructed human powered moonbuggy in a twelve-week competition for *The Great Moonbuggy Race* sponsored by NASA and held at the Space and Rocket Museum in Huntsville, AL.

Design Project II: Developed a lake source cooling system for Berry College in Rome, GA. Project included evaluation of direct cooling of buildings with lake water, creation of computer program to size cooling coils, and detailed design of example building, including, HVAC equipment specifications, piping, ductwork, temperature and ventilation controls and estimated installation costs.

Experience

Co-op Engineer: 2000- 2001
American Tank & Vessel, Engineering/Drafting Department
Birmingham, Alabama
Worked as detailer and checker. Created standard CAD drawing database for API-620 and 650 flat bottom tanks and ASME pressure vessels using Microstation Powerdraft. Assisted design engineer by checking design calculations and job estimates. Performed wind analysis study on API tanks using universal building code. Designed and supervised detailing of trussed rolling ladder for floating roof tank.

Assistant Field Director: 1998
Bevill for U.S. Congress Campaign
Jasper, Alabama
Assisted field director in setting up campaign events. Traveled to events and prepped site for candidates arrival. Managed campaign supplies in fourteen county district. Drove candidate to campaign events across state of Alabama.

Grinder: 1996
Alabama Gate City Steel
Cordova, Alabama
Worked as grinder and helper. Assisted in rolling of steel plate, painting, and sand blasting of ASME pressure vessels.

Skills

AutoCAD, Microstation Powerdraft, Matlab, Maple, Microsoft Word, Excel, PowerPoint, Outlook, Internet Explorer, Microsoft Works, Interactive Heat Transfer, Finite Element Heat Transfer, Labview, Windows, Macintosh

Activities

American Society of Mechanical Engineers
Society of Automotive Engineers
American Society of Heating, Refrigerating and Air-Conditioning Engineers
11th place out of 65 competitors in *The Great Moonbuggy Race*

References

Available upon request

SURYA N. M. MUDIYA

Email: surya001@bama.ua.edu
Phone: (205) 292-3113

319 Grace Street, Apt #16
Tuscaloosa, AL-35401

OBJECTIVE

Seeking a challenging opportunity to enhance my experimental and analytical skills as a Mechanical Engineer

COMPUTER SKILLS

Operating Systems: Windows 2000/NT, UNIX and MS-DOS
Application Packages: Labview, AutoCAD (R14), AutoDesk Inventor (5.0) and Pro/E (2000i)
Languages: FORTRAN, C++, Visual Basic and Matlab
Software Packages: MS Office, Grapher and Tec plot

EDUCATION

- Master of Science, Mechanical Engineering - GPA 4.0/4.0
  The University of Alabama, Tuscaloosa, AL (April 2003)
- Bachelors Degree in Mechanical Engineering - GPA 3.72/4.0
  Andhra University, Visakhapatnam, India. May 1999

EXPERIENCE

Client: Center for Advanced Vehicle Technologies, University of Alabama (Jan 2001 to till date)
Role: Graduate Research Assistant

- Analyzed and Isolated Vibrations and Installed Caterpillar single-cylinder diesel engine.
- Calibrated and installed all the Instruments on the test engine.
- Set up the data acquisition system using Labview software (National Instruments).
- Simulated turbocharger conditions and designed the test matrix.
- Performance and Emission data collection and Analysis
- Teaching Assistant for "Combustion engines" undergraduate course.

Client: Hindustan Shipyard Limited (undertaken by Govt. of India), Visakhapatnam, India.
Role: Junior Engineer (July 1999- June 2000)

- Monitored test procedures of on-board auxiliary engines.
- Hands on experience with onboard engine components and machinery.
- Experience working in various facets of a ship building industry and acquired project management skills

ACADEMIC PROJECTS

Title: Effects of Engine Operating Parameters on Ignition Delay, and Comparison with Empirical Correlations (**Master Thesis**)

- Designed the experimental set-up and the test matrix
- Developed a Program to compare the experimental and correlations delays from cycle variables
- Analyzed the results by varying the operating parameters.

Title: Optimization of combined Power Plant cycle efficiency (**Thermodynamics**)

- Optimized the combined cycle thermal-efficiency from Rankine and Brayton cycles.
- Programmed in Matlab for the calculations and optimization.

Title: Calculation of flow field variables in an Open Cavity (**FiniteDifferenceMethods in CFD**)

- Designed an Open Cavity with a staggered grid, for the calculation of flow field variables.
- Developed SIMPLE algorithm by programming in C++
- Analyzed the flow field variables such as Velocities, Pressures and Temperatures.

Title: Study of the structure of KIVA and CHEMKIN (**Principles of Combustion**)
- Studied the structures of CHEMKIN (chemical kinetic software) and KIVA (engine-simulation code) and the subroutines in the codes.

Title: Comparing Combustion models in KIVA-3 (**Advanced Computational Fluid Dynamics**)
- Tested the chemical kinetic-controlled and mixing rate-controlled combustion models
- Compared and Analyzed the results from the combustion models

Title: Thermal image analysis and evaluation of temperatures for parametric control in MIG CO_2 Welding (**Undergraduate Project**)
- Developed a computer program to incorporate the image processing techniques
- Analyzed the pseudo thermal images obtained from the experiments to estimate temperatures

RELATED COURSES

Principles of Combustion, Finite Difference Methods in CFD, Advanced CFD, Classical Thermodynamics, Internal Combustion Engines, Partial Differential Equations, Mathematical Analysis, Production Technology, Strength of Materials, Heat and Mass Transfer, Power Plant Engineering and Theory of Machines

HONORS AND ACTIVITIES

- National Merit Scholarship for Academics in 10^{th} grade.
- Organizing Secretary of MESCON '98 – Students National Conference, India.

PERSONAL STRENGTHS: Exceptionally self-motivated, team player, well organized, strong responsibility, eager to learn, good communication skills, strong interpersonal skills, ability in problem solving and troubleshooting.

REFERENCES:

Available upon request.

DAVID ZACHARIAH NUCKOLS

ADDRESS: 900 HARGROVE ROAD, APARTMENT # 35, TUSCALOOSA, ALABAMA 35401
HOME PHONE: (205) 752-3253 CELL NUMBER: (205) 242-4722 EMAIL: dznucks@hotmail.com

EDUCATION

Master's of Science: Engineering Mechanics, Minor in Mathematics
The University of Alabama, Tuscaloosa, Alabama
Expected Graduation: May 2003 Graduate GPA: 3.21/4.00
Thesis Research: Strength Estimates for High Velocity Penetration of Geological Targets by the Compaction Ring Theory

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, Alabama
Graduated: May 2001, Cum Laude
Overall Professional GPA: 3.81/4.00 Cumulative UA GPA: 3.68/4.00
Passed Fundamentals of Engineering Exam – Spring 2000
Related Coursework: Internal Combustion Engines Design, Jet Propulsion Design, Mechanics, Strength of Materials, Fluid Dynamics, Dynamics, Theory of Elasticity and Plasticity, FEA, Applied Mathematics

Technical: Precision Machine Technology, Two-year Diploma
The Huntsville Center for Technology, Huntsville, Alabama, 1995-1997

EXPERIENCE

Research/Design: The University of Alabama, Tuscaloosa, Alabama

Thesis Research: Devised a theory for rigid-body penetration of inelastic geological targets. Theory found a correlation between impact velocity and penetration depth using target and penetrator properties. Conducted high-velocity laboratory-scale penetration testing of concrete targets, to obtain results in agreement with the compaction ring theory.

Graduate Research: Spring 2002
Identified sources of inaccuracies and successfully improved the existing design of an experimental bending/torsion test frame. Modifications include design of lighter and stronger components, reduction of friction in moving parts, and established proper setup procedures to guarantee elimination of possible setup errors.

Under-Graduate Research Assistant: 2000 - 2001
Simultaneously managed multiple projects and independent study.

- Aided in building test model for helicopter gear-noise reduction research project.
- Designed and fabricated sound proof enclosures for motors and generators.
- Set up research project for reduction of vibration due to intake/exhaust valves in cylinder head assembly from a Honda 1.8L DOHC IC engine.
- Researched topics such as dynamic modeling of vehicle–train collisions, vibration effects on fuel cells.
- Conceptualized, designed, and fabricated submersion unit for NASA graduate research project.
- Implemented programmable computer controlled power screw into submersion unit to raise and lower investment casting into lead bath.
- Completed independent study in modal analysis.
- Constructed an improved chain tension device and adapted to existing mini-baja for SAE.

Senior Design: Mechanical Engineering Design Clinic, Fall 2000 - Spring 2001

I. Designed and built device that enabled people with handicaps to fish by way of sip and puff technology. The design was able to cast to various distances, set hook, and reel in the lure.
II. Proved client's original concept to be impractical. Discovered inexpensive method to fuse joint between the lateral line and main line of sewage pipe that has been rehabilitated by Ultraliner Inc.'s trenchless technology. Method involved wrapping end of a lateral line with disposable heating strip that would heat and fuse the lateral and main lines together.

DAVID ZACHARIAH NUCKOLS

HOME PHONE: (205) 752-3253 CELL NUMBER: (205) 242-4722

EXPERIENCE

Maintenance Engineering Intern

Engelhard Corporation, Madison, Alabama. Three Summer Terms
Provided mechanical engineering support to plant, improved maintenance and production efficiency of ball mill, heavily involved in plant safety

Summer 2000:

- Improved heat transfer in Netzsch ball mill cooling jacket.
- Updated production management weekly on MCC IV downtime and conducted experimental procedures to decrease maintenance downtime.
- Observed plant operations to search for ways of improving overall production.
- Involved in the Life Line team, designed to increase safety in and around plant.
- Managed crew of 8 contractors to eliminate safety hazards per Life Lines.
- Adapted brushing machine to brush inner lip of new BMW catalyst substrate.
- Coordinated several projects during summer shutdown.

Summer 1999:

- Improved efficiency of ball mill operation by reconfiguring material handling process.
- Decreased head loss by modernizing slurry transfer network in Tower area.
- Improved design on Netzsch disks to reduce the wear and downtime of ball mill.
- Aided Life Line team to increase safety in all areas of plant.
- Assisted in installation of robotics coater for the PremAir process.
- Redesigned process procedures for better ergonomics and wrote standardized Lock-out Tag-out procedures for new and existing machines to comply with ISO 9000.

Summer 1998:

- Debugged and updated computerized inventory system that recorded transactions in central stores.
- Redesigned the existing faceplates on ball mill filters reducing maintenance down time.
- Updated blueprints of ball mills.

Job – Shadowing Program

Bruderer, Huntsville, Alabama. Spring 1997.
Observed manufacturing operations that took place at large-scale production facility. Shadowed machinist, operating a CNC lathe, to learn the entailments of a technical profession. Observed the progression of parts from engineering to production.

SKILLS

Machining/Tool and Die Making: Manual Lathe and Mill, CNC Lathe and Mill, Surface Grinder
Automotive: Internal Combustion Engine, Chassis, Restoration, General Welding
Computer: AutoCAD 2000, Fortran, Microsoft, Windows, Matlab, Maple, Altair Hypermesh, Abaqus

HONORS/LEADERSHIP

Tau Beta Pi Honor Society
Pi Tau Sigma Honor Society
Gamma Beta Phi Honor Society
Phi Eta Sigma National Honor Society
Alpha Lambda Delta National Honor Society
ASME Vice President of Membership
U. S. Air Force Graduate Research Fellowship
National Alumni Association License Tag Fellowship
Chevron Scholarship - $500
Barksdale Memorial Scholarship - $1000
B.E.S.T. Scholarship - $1000
CCHS Presidents Chair
Coordinating Council for Honor Societies (CCHS) Liaison for Phi Eta Sigma
The Huntsville Times Carrier of the Year Award
The Huntsville Times Carrier of the Year Runner-up Award
Science and Engineering Apprenticeship Program: Best overall Project and Best in Computer Science

JASON L. PARHAM

5606 New Watermelon Road
Tuscaloosa Alabama 35406
(205) 345-6744
gmo1515@hotmail.com

Objective

To obtain an engineering position in the manufacturing industry with opportunities to move into a management position.

Education

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, Alabama
Graduated: May 2003
GPA 2.6/4.0
Design Projects: Lifting Device for Children with Spina Bifida, Society of Automotive Engineers 2003 Mini Baja West Competition
Passed Fundamentals of Engineering Exam in October, 2002

Experience

Engineering Coop, Summer 2000
Mercedes Benz US International, Body Assembly Department, Vance, Alabama

Assisted Engineers with projects including performing time studies, updating Manufacturing Process Sheets, ordering new or replacement equipment and parts, and conducting plant-wide Preventative Maintenance Audits and Reports.

Engineering Coop, Spring and Fall 2001
Shaw Industries Plant #4, Maintenance Engineering Department, Dalton, Georgia

Assisted Head Plant Engineers and Department Managers with various projects including the installation of new equipment and various modifications and improvements to existing equipment in a Carpet Manufacturing Mill. Implemented Process Improvement suggestions submitted by Plant employees for purposes of greater safety and efficiency. Also designed the equipment layout for the installation of a 400hp Sullair Twin Screw Air Compressor.

Computers: MS Office, Lotus 123, 3-D AutoCAD, Autodesk Inventor, Windows, Matlab, Maple, PLC Ladder Logic

Leadership/Awards

Theta Tau Professional Engineering Fraternity, Erich J. Schrader Award Committee Chairman, Mu Chapter, Fall 2002
Tennessee Valley Railroad Museum Conductor Trainee and Shop Volunteer, Black Warrior Model Railroad Society, Gulf Mobile and Ohio Railroad Historical Society, Super Coupe Club of America, Society of Automotive Engineers, Chevron Scholarship for Mechanical Engineering recipient

References

Available upon request

SHALEY KYLE PARKER

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(205) 247-5729

Dash4bama@cs.com

Permanent Address:
33 Haynes Drive
Moody, AL 35004
(205) 640-6811

OBJECTIVE

To obtain a position in manufacturing with an emphasis in product design and development and a future in management.

EDUCATION

Bachelor of Science: Mechanical Engineering
Minors: General Business and Mathematics
The University of Alabama, Tuscaloosa, Alabama
Expected Graduation: December 2003
Cumulative GPA: 3.75/4.0 Major GPA: 3.85/4.0
Passed Fundamentals of Engineering Exam April 2002
University Honors Program, Participated in The University of Alabama's Foundation Coalition Team Integrated Design Engineering (FC-TIDE) freshman curriculum program

EXPERIENCE

Undergraduate Research Assistant, January 2003 – Present
The University of Alabama, Mechanical Engineering Department, Tuscaloosa, Alabama
Project involves research using cold air to reduce tool wear in the machining of metal matrix composites. Assist graduate student in general research activities. 2-D and 3-D design work using AutoCAD. Search for literature on the Internet.

Engineering Co-Op, Summer 2001/Spring 2002/Fall 2002, Mercedes Benz, Vance, Alabama
Audit Quality Systems Engineering: Built/maintained database in Microsoft Access to log Vehicle Inspection Standards. Created Visual Basic code to transfer Vehicle Inspection Standards information to hand-held data collector. Assigned Mercedes part numbers to all warranty damage codes and built database to maintain information. Created process to electronically "sign" documents using Microsoft Excel and Visual Basic eliminating numerous printed documents. Investigated present quality concerns. Test-drove vehicles. Performed other Microsoft Access/Excel/Visual Basic work.
Assembly Quality Engineering: Performed data analysis using Microsoft Excel. Built database in Microsoft Access to track employee training. Inspected vehicles on assembly line.

Engineering Intern, Summer 2000/Christmas 2000, Bethea Power Products, Pelham, Alabama
Quality Control Lab Technician: Performed failure/yield tests on products. Performed chemical tests on foundry sand and machined aluminum test bars.
Engineering Department: Edited and created drawings using AutoCAD Release 14. Catalogued drawings using Microsoft Excel. Updated and amended the company's computerized product cataloging system. Filed drawing and quote files. Ran errands using the company van.

COMPUTER SKILLS

Proficient in: AutoCAD, problem-solving using MATLAB software, computer hardware and computer construction, Microsoft Windows, Word, Excel, PowerPoint, Access for database construction and Visual Basic.
Familiar with: FeatureCAM, 3D Systems Rapid Prototyping Machine, PLC programming using ladder logic, CNC programming, and LABview software.

HONORS/ACTIVITIES

Earned Eagle Scout Award, Boy Scouts of America
Robert C. Byrd Educational Scholarship
The National Eagle Scout Association (NESA)
National Society of Collegiate Scholars
Golden Key International Honor Society
The American Society of Mechanical Engineers (ASME)
-Engineering Executive Council Representative
The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
Assisted with Student Introduction to Engineering (SITE)
Tau Beta Pi
Pi Tau Sigma
Alpha Lambda Delta
Dean's List
President's List
Presidential Scholarship

REFERENCES AVAILABLE UPON REQUEST

MATHEW PAUL

Phone: (205) 792-2861
Email: mathewpaulm@onebox.com

1200 University Blvd, # B1
Tuscaloosa, AL 35401

Objective: To secure a position as an engineer in a dynamic, growth-oriented industry where my technical and analytical skills can be optimally utilized.

Profile: MS degree in Mechanical Engineering with experience in engines, combustion, thermodynamics, mechanical design, CFD and CAD

Education:

MS, Mechanical Engineering, The University of Alabama, Tuscaloosa, AL.
August, 2000 - *Present*

- Grade point average: 3.8/4.0
- Relevant course work: Advanced IC Engines, Transport Phenomena, Classical Thermodynamics, Heat Transfer, C++, CFD, HVAC and Engineering Statistics.
- Thesis project: Development of phenomenological combustion and emissions models for a pilot-ignited, natural gas fueled **Caterpillar** (CAT 3401) engine using FORTRAN.
- Other academic projects:
  - Developed NO_x model for gasoline and diesel engines.
  - Tested and analyzed experimental results from a dual fuel engine.
  - Developed ignition delay model for a dual fuel engine.
  - Developed a two-dimensional Navier-Stokes solver using computational fluid dynamic (CFD) techniques in C++.
  - Designed a power plant system for maximum thermal efficiency.
  - Developed a commercial bid proposal for an HVAC system.

BE, Mechanical Engineering, The University of Kerala, Kerala, India.
August, 1994 – February, 1999

- Project work: Designed and selected an air conditioning system for a commercial application. It was adjudged best among 33 projects at The University of Kerala in the year 1998.

Experience:

Research / Teaching Assistant, The University of Alabama, Tuscaloosa, AL.
August, 2000 – *Present*

- Developed phenomenological models for dual fuel engines.
- Designed and fabricated a rig for measuring pressure loss in tubes and valves.
- Designed and fabricated a rig to analyze the performance of pumps.

Engineer, R&D (Mechanical) Center, Sun Fiber Optics (P) Ltd, Kerala, India.
March, 2000 – July, 2000

- Designed a Low Reflection Termination station, using **ProE**. This fixture enables to form lens on one side of a coupler and it increased the annual profit of the company by 3% in the year 2000.

Engineer Trainee, Automobile Workshop, Cochin Port Trust, Kerala, India.
March, 1999 – March, 2000

- Received training in thermal analysis and fluid flow for a simple system.
- Participated in repair and maintenance of automobiles and engines.

Computer Skills:

- Operating systems: DOS, Windows 95/98/00/NT.
- Languages: C++, FORTRAN, MATLAB and BASIC.
- Application Software: ProEngineer (ProE), AutoCad2000, IronCAD, Labview, BinCalc, CREST, TecPlot, Grapher, Minitab and MS Office.

Memberships:

- Society of Automotive Engineers (SAE).
- American Society of Mechanical Engineers (ASME).
- American Society of Heating, Refrigerating and Air Conditioning Engineers.

Awards:

- Graduate Research Assistantship, The University of Alabama (2000 - *Present*).
- Annual Scholarship from State Bank of India (1986 - 1994).

References: Available upon request

JOHN D. PERDUE

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jd_perdue@hotmail.com

OBJECTIVE:

To obtain an engineering position that will compliment my professional and academic achievements, and aid in my pursuit of a professional engineering license and a graduate degree.

EXPERIENCE:

THE BOEING COMPANY — **Huntsville, AL**
International Space Station (ISS) - Engineer — January 2001 - Present

- Responsible for stress, dynamic (vibration), fracture, and fatigue analyses of the On-Orbit Replacement Unit (ORU) Flight Support Equipment (FSE) for the Boeing Performance Engineering Group
- Duties include a full evaluation of the ISS space flight hardware providing modifications to design group for structural inadequacies
- Structural analysis utilizes FEMAP to construct Finite Element Models (FEM) and NASTRAN for static and dynamic evaluations
- Responsible for developing and maintaining ORU FSE structural analysis reports

SOUTHERN NATURAL GAS COMPANY — **Birmingham, AL**
Gas Operations – Cooperative Education Student — June 1998 - August 2000

- Analyzed gas operations programs to improve performance and efficiency
- Established databases to aid in minimizing Lost and Unaccounted for Fuel (LAUF)
- Expanded personal knowledge of the business side of engineering

PARKER-HANNIFIN — **Jacksonville, AL**
Process Engineering – Cooperative Education Student — August 1997 - December 1997

- Updated and verified process documentation of ball valves
- Performed cost analysis to maximize production of 316 stainless steel ball valves
- Utilized AutoCAD skills to redesign tool holders for chucking machines

UNIVERSITY OF ALABAMA — **Tuscaloosa, AL**
Department of Aerospace Engineering - Engineering Tutor — August 1999 - December 2000

- Mentored undergraduate students in the fundamentals of dynamics

EDUCATION:

The University of Alabama, Tuscaloosa, Alabama
Bachelor of Science: Mechanical Engineering
Cumulative GPA: 3.2/4.0
Graduation Date: December 2000
Passed Fundamentals of Engineering Exam (EIT or FE)

COMPUTER EXPERIENCE:

MSC/NASTRAN, FEMAP, FLAGRO, MS Office, MathCAD, UNIX, FORTRAN, Visual Basic, AutoCAD

REFERENCES AVAILABLE UPON REQUEST

Joanne T. Pfeiffer, E.I.T.

joannepfeiffer@yahoo.com
11001 S. Ridgeway Avenue ♦ Chicago, IL 60655 ♦ (773) 881-4133

OBJECTIVE

To obtain a position in the field of Mechanical Engineering that utilizes my analytical and communication skills; available to interview immediately.

EDUCATION

UNIVERSITY OF DAYTON, Dayton, Ohio — Cumulative GPA: 3.64/4.0
Bachelor of Mechanical Engineering Degree, May 2003 — Dean's List: 6/8 semesters
Major – Mechanical Engineering — Academic Scholarship
Additional Courses in: Human Anatomy, Kinesiology and Human Factors — Engineer in Training

RELATED EXPERIENCE

Design and Manufacturing Clinic – Student Design Team — Dayton, OH
August 2002 to May 2003

- 1st semester – Developed conceptual designs of an information based health related mechanism using mechanical and electronic systems
- 2nd semester – Analyzed assembly process of presses in order to increase production rates for the Minster Machine Company
- Provided oral presentations to sponsors and presented designs in a final report

McGuire Engineers – Intern — Chicago, IL
May to August 2001

- Assisted in designing HVAC systems for new buildings, renovated office space and museums
- Worked with a team of engineers and architects to meet project deadlines
- Participated in HVAC analysis and design for the Chicago Field Museum
  - One criterion of analysis was the temperature control specifications for the artifacts using principles of thermodynamics
- Surveyed existing HVAC systems at various job sites

Ohio High School Athletic Association – Certified Basketball Official — Montgomery County, OH
November 2001 to Present

- Officiate Junior High School Basketball games
- Promote proper playing of the game and the safety of the athletes

Chicago Park District – Senior Lifeguard, Oak Street Beach — Chicago, IL
May 1997 to August 2002

- Utilized cognitive judgment skills to assess life-threatening situations and make decisions regarding the safety of the patrons
- Coordinated rescue efforts and responded immediately to emergencies
- Managed and supervised the performance of fifty lifeguards

TECHNOLOGY SKILLS

- Skilled in Microsoft Office, AutoCAD, Matlab
- Programming skills in Visual Basic, C++
- Proficient in Maple, LabView, SDRC IDEAS: Parametric modeling and finite element analysis

HONORS/AWARDS

Tau Beta Pi, National Engineering Honor Society
Pi Tau Sigma, National Mechanical Engineering Honor Society
Golden Key National Honor Society
Intercollegiate Cross Country All Academic Team
Presidential Scholarship recipient
Atlantic 10 Conference Honor Roll
University Scholar
National Society of Collegiate Scholars

COMMUNITY INVOLVEMENT

University of Dayton Campus Ministry, Retreat Leader
University of Dayton Varsity Cross Country Team
University of Dayton Club Rugby Team
University of Dayton Athletes in Action
American Society of Mechanical Engineers
Volunteer, Leukemia and Lymphoma Society
Volunteer, Swim Coach - Special Olympics
Volunteer, Westwood Community Center

WILLIAM L. PHILLIPS

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(205) 347-6040
will_philly@hotmail.com

Permanent Address:
6540 Vista Point
Southside, Al 35907
(256) 442-7657

OBJECTIVE

To obtain an internship position with an engineering firm to gain research experience to help solve mechanical problems.

EDUCATION

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, AL
Expected Graduation: May 2005
Cumulative GPA 2.51/4.0

COURSES

Thermodynamics, Manufacturing Practices, Strength of Materials, Dynamics, Engineering Analysis, AutoCAD

EXPERIENCE

Engineering Draftsman, March 2001 - August 2001
Skipper Engineering, Rainbow City, AL
Assisted in land surveys, soil samples, and perk tests. Supervised AutoCAD drawings done during the fieldwork. Helped finish and present projects done for the city and/or county.

Tree Cutter, October 1999 – January 2000.
Holiday Christmas Tree Farm, Glencoe, AL
Planted and harvested Christmas trees. Cut, bagged, and loaded trees for customers, including the elderly and/or disabled. Also delivered trees.

Cook, May 1998 - September 1998,
May 1999 – September 1999.
Cici's Pizza, Rainbow City, AL
Assisted in preparation of food. Bussed tables and washed dishes. Opened and closed the store. Operated the register and dealt with people, including their complaints.

COMPUTERS

AutoCAD, MatLAB, Windows, Internet, MS Office.

HONORS/ACTIVITIES

American Society of Mechanical Engineering (ASME)
Society of Automotive Engineering (SAE)

REFERENCES

Available upon request.

HANK PORTER

Current Address:
1020 14th Ave. Apt. 31
Tuscaloosa, AL 35401
(205) 292-7118
porte006@bama.ua.edu

Permanent Address:
P.O. Box 861794
Tuscaloosa, AL 35486
(205) 292-7118

Objective

To obtain an engineering position in the manufacturing and design industry utilizing my process engineering experience to add value to your company.

Education

The University of Alabama, Tuscaloosa, AL

- Bachelor of Science: Mechanical Engineering

Expected Graduation: Dec 2004
Cumulative GPA: 2.758/4.0
Course Work: Mechanics of Materials, Thermodynamics, Fluid Mechanics, Dynamics, Heat Transfer

Experience

Mercedes-Benz, Vance, AL. Alternating semesters 2001-2003,
Cooperative Education Program

- Setup and programmed critical torque tools. Designed and calibrated small process tools. Ran new parts trials and created quality tracking systems. Worked on dimensional analysis to improve the quality build of the car body by creating tracking systems for easy review. Problem solved for quality issues on the way that the parts fit to the car. Aided in 1,000 car retrofits to help improve quality issues and helped check for problems in car model year change over.

Siro's Bistro, Lafayette, LA. Summer 2001

- Made sandwiches and salads, washed dishes

Walgreen's Pharmacy, Lafayette, LA. Summer 2000

- Cashier, assisted customers in different departments and helped setup new stores by organizing departments

Computers

MS Excel, MS PowerPoint, MS Word, MS Works, Windows, AutoCAD, Matlab

Activities

Member, American Society of Mechanical Engineering
Phi Kappa Psi Fraternity
Hobbies: Fishing, Hunting, Tennis

References

Available upon request

HANK PORTER

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porte006@bama.ua.edu

Permanent Address:
P.O. Box 861794
Tuscaloosa, AL 35486
(205) 292-7118

References

- Mr. Matt Burrows
  Process Engineer
  Mercedes Benz
  1 Mercedes Dr., Vance, AL 35490
  (205) 507-3781
  Matt.Burrows@mbusi.daimlerchrysler.com
  Mentor Engineer

- Mr. Hans Crouse
  Assistant Manager Process Engineer
  Mercedes Benz
  1 Mercedes Dr., Vance, AL 35490
  (205) 507-2630
  Hans.Crouse@mbusi.daimlerchrysler.com
  Employer

- Mr. Rolf Wrona
  Manager of Production
  Mercedes Benz
  1 Mercedes Dr., Vance, AL 35490
  (205) 507-3475
  Rolf.Wrona@mbusi.daimlerchrysler.com
  Employer

- Dr. Keith Woodbury
  Associate Professor Department of Mechanical Engineering
  The University of Alabama
  P.O. Box 870276, Tuscaloosa, AL 35487
  (205) 348-1647
  woodbury@me.ua.edu
  Thermodynamics and Heat Transfer Professor

- Ms. Beth LaSalle
  Former Partner of Acadiana Internet Service Provider
  1079 Fontelieu Rd., St. Martinville, LA 70582
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  Family Friend

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ALABAMA 35401

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RAVISHANKAR RAJAGOPALAN

Objective

To secure an internship position for summer 2003 in manufacturing and operations research related fields

Experience

August, 2002 – Current University of Alabama Tuscaloosa, AL

- Teaching assistant in the Department of Industrial Engineering
- Assist undergraduate students in laboratory sessions in Work Design, grade homework/assignments, and proctor for examinations

June, 2000 – June, 2002 Brakes India Ltd Chennai, India

Engineer – Supplier Development & Integration

- Developed new products related to machining. Estimated costs for components and assisted Marketing in submitting quotes for customers. Provided technical assistance to suppliers and individually responsible for successful launch of the product.
- Key member in development of Proton (Mitsubishi) brake actuation development, Toyota wheel cylinder and brake actuation development, Ford Ikon brake system up gradation, L&T John Deere tractor brake components development.
- Played a pivotal role in achieving Cost Reduction worth Rs.35 Lacs (USD 50,000) per annum through Process Change, Material Change, Cycle Time Reduction, Indigenization and Supplier consolidation
- Finalized cost of components through negotiations with supplier
- Acquired in-depth knowledge in QS 9000 & ISO 9000 systems and procedures while training suppliers
- Played vital role in assisting task force for achieving ISO 14000 (The environmental system)

Education

Master of Science in Industrial Engineering
University of Alabama , Tuscaloosa, AL
Expected graduation date: May 2004
GPA: 4.0/4.0
Significant Courses:
Manufacturing Systems Design
Operations Research
Network optimization
Systems Simulation
Genetic Algorithms

Bachelor of Engineering (Mechanical Engineering)
1996–2000 Bharathidasan University, India
Secured first class with distinction
GPA: 3.8/4.0 (Secured 3rd rank in the college)
Significant Courses:
Modern Manufacturing Systems
Industrial Robotics
Plant Layout & Material Handling
Production Technology

Projects

University of Alabama, Tuscaloosa, AL

- Scheduling of Automated Guided Vehicles – A review
- Simulation of Computer Integrated Manufacturing System of Gear manufacturing facility using OPENCIM

Brakes India Limited, India

- Development of tracking system for the cost reduction proposals in association with M/s. Anderson Consulting Company
- Design of Milling Fixture using Air oil Intensifier

Bharathidasan University, Tiruchirapalli, India

- Machine cell formation using Similarity Coefficient Fuzzy Logic (with coding in C language)

Professional Memberships

- Institute of Industrial Engineers (IIE)
- Institute for Operations Research and the Management Sciences (INFORMS)

Extracurricular activities

- Professional Violinist and represented college in various cultural events
- Active Member of Indian Association of Tuscaloosa (IAT) and Tuscaloosa International Friends (TIF)

References

- Available upon request

MEREDITH STROTHER RAYBON
msraybon@yahoo.com

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Maylene, AL 35114.
(205) 663-0510

School Address
900 Hargrove Road Apt. # 39
Tuscaloosa, AL 35401
(205) 910-4848

EDUCATION

University of Alabama
Bachelors of Science degree in Mechanical Engineering
Expected Graduation Date: May 2004
Cumulative Grade Point Average: 3.49/4.0
TIDE Curriculum – Integrated Engineering Program

DESIGN PROJECTS

March 2003	Pressure Vessel Hatch Project
February 2003	Boring Bar Project
December 2000	Balance Beam Project
October 2000	Toaster Disassembly Project
September 2000	Classroom Desk Project

WORK EXPERIENCE

Southern Nuclear of Southern Company: (Summer Intern 2003) Birmingham, AL

- Gathered documents and drawings and changed them to a PDF format so we could put them on a cd for the Triennial Fire Protection Audit at Plant Hatch.
- Made binders of information for each of the different fire areas in the plant.
- Managed the audit database during the audit.
- Calculated how high a curb around the transformer needed to be to contain the transformer oil.
- Received a SPOT Award from my manager for the hard work that I did on the audit.

Southern Nuclear of Southern Company: (Summer Intern 2002) Birmingham, AL

- Was the leader of the team that built a Heat Exchanger database in Microsoft Access that describes the different heat exchangers in Farley Nuclear Plant.
- Researched and looked at drawings and vendor manuals to find information on the heat exchangers.
- Verified pipe information in a database, which was important for the safety of the personnel and plant components.
- Made training guides for the engineers on the procedures they use everyday.

Southern Nuclear of Southern Company: (Summer Intern 2001) Birmingham, AL

- Worked on improving the capital budget process for Farley Nuclear Plant.
- Interviewed engineers and accountants to find out what they had trouble with in the current capital budget process.
- Came up with a new capital budget process based on the interviews.
- Changed some engineering procedures to make sure the "customer needs" were met when they did a new design change.

COMPUTER SKILLS

Maple, MatLab, Microsoft Access, Microsoft Excel, Microsoft FrontPage, Microsoft Internet Explorer, Microsoft Outlook, Microsoft PowerPoint, Microsoft Word, Windows 95, and Windows 98, Windows XP

ACTIVITIES AND HONORS

University of Alabama
Dean's List
Pi Tau Sigma, Mechanical Engineering Honor Society (Fall 2002)

- Recording Secretary (2003-2004)
- National Conference in College Park, Maryland (February 2003)

Gamma Beta Phi Honor Society (Spring 2002)

- Distinguished Member Award (2002-2003)

National Collegiate Scholars (Fall 2001)
Alpha Lambda Delta Freshman Honor Society (Spring 2001)
Phi Eta Sigma Freshman Honor Society (Spring 2001)
North American Young Generation in Nuclear (August 2001)
Intramural Co-ed Flag Football (Fall 2002)
College United Methodist Church mission trip (July 2003)

Society of Women Engineers

- Vice President of Membership (2003-2004)
- Secretary (2003)
- Webmaster (2001-2002)
- University of Alabama Outstanding Sophomore Award (2001-2002)
- Region D Conference in Gainesville, Florida (March 2002)
- Girl Scout Engineering Day Committee

The American Society of Mechanical Engineers

- Treasurer (2003-2004)
- Competitions Coordinator (Spring 2003)
- ASME Regional Student Leadership Seminar, Atlanta, Georgia (September 2002)
- UAME Day Publicity Committee (2001-2002)
- Freshman Mentor (2002-2003)

GRANT REDDING

Current Address:
726 Wallace Wade Ave. #B
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205-242-9119
greddin27@mindspring.com

Permanent Address:
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Birmingham, AL 35242
205-995-0081

OBJECTIVE
To obtain an engineering position in the building construction field.

EDUCATION
The University of Alabama, Tuscaloosa, AL
Bachelor of Science: Mechanical Engineering
Minor: Finance
Expected Graduation: May 2004
GPA: 3.0/4.0

Clemson University, Clemson, SC
Core Curriculum Courses
No degree

Senior Design Project: Designing a battery powered ride-on toy for children with disabilities.

Related Coursework: Chemistry, Calculus, Physics, Materials, Thermodynamics, Mechanics of Materials, Statics, Dynamics, Heat Transfer, Circuits, Fluid Mechanics, Controls, Design, Energy Systems, Combustion Engines.

COMPUTER SKILLS AutoCAD, Matlab, Word, Excel.

ATHLETIC ACTIVITIES
3-yr. Letterman for the University of Alabama Baseball Team
1-yr. Letterman for the Clemson University Baseball Team
3-time Southeastern Conference Honor Roll

Bluff City Bombers Baseball Team, Central Illinois Collegiate League, Alton, IL, Summer 2002.
Named to the Post-Season All-star Team
Voted the team's most clutch player

Asheboro Copperheads Baseball Team, Coastal Plains League, Asheboro, NC, Summer 2000.

Carolina Warriors Baseball Team, Southern Collegiate League, Anderson, SC, Summer 1999.

EXPERIENCE
Construction Worker, Bob Whitley Decorating, Birmingham, AL, Summer 2003.
Built a stone deck, poured concrete, replaced roofing, removed gutters, waterproofed houses using French drains, dealt with underground drainage systems, and performed carpentry work.

Fitness Instructor, Sportsfirst Greystone, Birmingham, AL, Summer 2001.
Maintained fitness equipment, helped customers, and cleaned the fitness area.

Car Detailer, Dan Thomas Pontiac, Asheboro, NC, Summer 2000.
Washed Cars, detailed the engine and the interior, and performed a shuttle service for service department.

ACADEMIC ACTIVITIES
The American Society of Mechanical Engineers
Athletes in Action

TIFFANY CELES RODEN
tiffany_c_roden@yahoo.com

PERMANENT ADDRESS:
1057 County Road 361
Pisgah, AL 35765
(256) 421-3429

CURRENT ADDRESS:
708 11th Street Unit 309
Tuscaloosa, AL 35401
(205) 247-5185

OBJECTIVE To obtain a position in mechanical engineering with an emphasis on business management.

EDUCATION

Bachelor of Science in Mechanical Engineering
Minor in Business Management
The University of Alabama - Tuscaloosa, AL
Expected Graduation: May 2004
GPA: 2.2/4.0

Associate of Science
Northeast Alabama Community College
Rainsville, AL
August 1998 to July 2000
GPA: 3.52/4.0

*Self funded 100% of college tuition through part time jobs, scholarships, loans, and savings.

WORK EXPERIENCE

Whitesell Corporation, Inc. - Muscle Shoals, AL
Mechanical Engineering Co-Op: Alternating Semesters Spring 2001 – Summer 2002
Sales Engineering

- Interacted with customers about issues concerning problems arising with parts
- Surveyed vendor processing – Plating
- Participated in customer data collection - Orangeburg, SC
- Participated in design reviews and drafted meeting notes
- Prepared advanced quality planning documents per AIAG format: (Characteristic List, Process Flow Chart, Process Failure Modes and Effects Analysis, Process Control Plan)

Quality Engineering

- Coordinated corrosion testing and compiled data for analysis and reporting
- Developed audit checklists for test procedures to assure that testing was conducted in accordance with consensus standards: ASTM B117, ASTM A380 for corrosion testing
- Evaluation of data for process controls
- Blueprint reading and comprehension
- Laboratory techniques for sample preparation
- Sample statistics
- Prepared equipment capability data
- Six Sigma quality tools: (Cause and Effect, Control Charts, Run Chart, Probability Plot, Pareto Chart)
- Process Failure Mode Effects Analysis (PFMEA)
- Root Cause Analysis Skills
- Various measurement skills

Safety Committee

- Proposed new health care policy

COMPUTER SKILLS: Familiar with: AutoCAD, MatLAB, Excel, Word, PowerPoint,
Exposed to: Harrington Corrective Action Database, Quantum SPC Software

CLUBS/ ACTIVITIES

Society of Women Engineers
Engineering Executive Council (2002-2003)
Education Outreach Chair (2001-2002)
Member of the Month - February 2002
Recruiting Committee (2000-2001)
Region Conference in Orlando, FL (2001)
Region Conference in Gainsville, FL (2002)
Science Olympiad Captain for Mission Possible

American Society of Mechanical Engineers
Regional Student Leadership Seminar in Atlanta, GA (2000)
Region Conference in Palm Beach, FL (2001)
Region Conference in Jackson, MS (2002)
Society of Automotive Engineers
Future Alumni of Tradition and Excellence
Steering Committee
American Management Society

RYAN C. RUSSELL

205 Gusty Lane
Gardendale, Alabama 35071
Phone: (205) 631-6205
Email: rebelyell00@hotmail.com

EXPERIENCE

Junior Field Engineer, Schlumberger Oilfield Services-Wireline. June 2001 thru October 2001.
Completed 9 weeks of 10 week training course. Due to economic slow down, position was cut.

Intern, Mercedes-Benz, Vance, Alabama. January 1998 thru August 2000.
Developed and implemented T.P.M.(Total Productive Maintenance) pilot program. Developed catalog database. Developed catalog for N.C. Locators for all locating fixtures within the Body Shop. Updated Master Process Sheets. Managed department budget. Trained incoming interns, and assisted engineers as needed.

Intern, Chromalox, Vernon, Alabama. January 1997 thru May 1997.
Modified tooling drawings, updated plant layout. Designed cooling system for cutting blades. Added leveling system to piping equipment.

EDUCATION

Bachelor of Science: Mechanical Engineering.
The University of Alabama, Tuscaloosa, Alabama
Graduated: May 2001
GPA: 2.94/4.0, 2.78/4.0 Major
F.E. exam scheduled for April 2002
Design Projects: Slide-valve modification for 3rd Generation Rocket Based Combined Cycle Engine for future NASA projects.
Energy usage evaluation for Energy Star® certification.
HVAC System for small office building
"Sip and Puff" controlled fishing rod for quadriplegic
Automated aluminum can crusher
Airplane landing gear strut
Head switch to encourage proper seating posture for R.I.S.E. Program

Calhoun Community College, Decatur, Alabama
No degree obtained. Core curriculum subjects
GPA=3.17/4.00
Personally financed 80% of education

COMPUTER SKILLS

AutoCAD 2000, Microsoft Excel, Word, PowerPoint, Access, OP Software

HONORS/ACTIVITIES

University of Alabama:
American Society of Mechanical Engineers
Society of Automotive Engineers
Mechanical Engineering Department Peer Mentor
Theta Tau Engineering Fraternity,
Philanthropy Chair (Spring 1999), House Manager (Spring 1998)

Jasdeep S. Sahni
290 Hardaway Hall
Dept of Mechanical Engg.
The University of Alabama
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26 March 2003

Dear Sir/Madam:

I am writing to inquire about 2003 summer internship opportunities. I am currently in my final year at The University of Alabama, studying for a MS in Mechanical Engineering with specialization in manufacturing. I am particularly interested in gaining experience in manufacturing/design field, although I would happily consider other technical work.

As you can see from my enclosed resume, I have a broad base of knowledge in manufacturing areas and relevant summer's work experience. Of particular relevance was the time I spent at shop floor at GNA Axles in India where I was exposed to state of art diverse manufacturing processes. While there, I studied and analyzed the process sequence for the manufacture of axles, looking at ways to optimize the production cycle. AT HMT Limited, I acquired knowledge about the manufacture and assembly of whole range of automobile components.

After my undergraduate studies, I attended a six months full time course in CAD/CAM. While there I acquired skills on CAD/CAM software's like Pro/E, IDEAS and AutoCAD, keeping focus on mold design for plastic injection molding using Pro/E. As a graduate student at The University of Alabama, I have reviewed the affect of process parameters (cutting speed, feed, and depth of cut) in milling of dies and molds on surface integrity (microstructure, residual stress) of parts and their affect on performance and fatigue life of dies and molds. I am currently working on surface integrity generated by Hard turning Vs Grinding. My aim in a career is to build on my current knowledge and experience in the field of manufacturing by undertaking professional work within an esteemed organization.

I am hard working, academically strong and have shown, during my course work and whilst at work, the ability to analyze and solve problems effectively, to communicate clearly and to complete complex tasks under pressure.

I am willing to relocate anywhere at my own expenses and available for work beginning mid-May.

Looking forward to hear from you soon.

Yours Sincerely

Jasdeep S. Sahni

JASDEEP SINGH SAHNI
sahni001@bama.ua.edu
290 Hardaway Hall, Department of Mechanical Engineering
The University of Alabama, Tuscaloosa, AL 35487
Ph: (205) 792 3825, W: (205) 348 1656, Fax: (205) 348 6419

OBJECTIVE

A obtain internship/co-op in manufacturing/design industry for summer 2003 or permanent employment beginning fall 2003.

EDUCATION

Master of Science, Mechanical Engineering with specialization in manufacturing
The University of Alabama, Tuscaloosa. Expected Graduation: Dec 2003.
GPA 3.813/4.

Master Certificate in CAD/CAM
Central Institute of Tool Design, Hyderabad, India, March 2001.

Bachelor of Technology (Mechanical Machine Design and Automation)
Regional Engineering College, Jalandhar, India, June 2000.

EXPERIENCE

Graduate Teaching Assistant, Department of Mechanical Engineering
The University of Alabama. 01/02 – present.
Graded papers of ME383 (Modern Manufacturing Practice), assisted in teaching and in research work.

Office Assistant, Circulation desk, Science and Engineering Library
The University of Alabama. 01/02–07/02
Checking In/out books, shelving and shelf reading, general office work.

Summer Internship, GNA Axles Ltd., Punjab, India. 06/01/98–07/15/98.
Studied the manufacturing process sequence which included chemical inspection of raw material, forging, heat treatment, shot blasting, hardness inspection, CNC and manual machining, quality control for automobile components mainly power take off real axle shaft and gears.

Summer Internship, Hindustan Machine Tools Ltd., Haryana, India. 06/07/99-07/03/99.
Studied the production and assembly line sequence of farm tractor components and heavy machine tool parts.

COMPUTER SKILLS

C, MATLAB, AutoCAD, DOS 6.2, Windows 95/98/2000/NT.
Pro/E 2000i:
Modeled complex automobile parts and valves, mold design of plastic components for plastic injection molding, assembly of parts, assigning manufacturing process sequence for generation of CNC program.
IDEAS Master Series 6A:
Modeling, drafting and assembly of automobile components, simulation of structural analysis problems, assigning operation sequence for manufacture of parts.

PROJECTS

Comparison of Mechanical Properties of White Layer in Hard Turning Vs Grinding
Hard tuning is postulated to have potential to replace grinding as finishing process. Properties of white layer generated in hard turning and grinding were compared. The results are under publication.

A Study of Surface Integrity in Milling of Dies and Mold
Effect of process parameters (cutting speed, feed and depth of cut) on the surface integrity (residual surface stresses, micro structural changes etc) and their affect on the performance and fatigue life of molds and dies was reviewed.

Mechanical Starter for Generators
A working model of mechanical starter was designed and fabricated. It has potential to replace the costly and maintenance requiring batteries. The kinetic energy of revolutions of generator shaft going waste after the generator is switched off is stored in the helical spring recoil mechanism through free bevel gear. This energy is later used to start the generator during power failure. Another postulated application of this mechanism is as regenerative brake and thus help in fuel economy.

COURSES OF INTEREST

Manufacturing Processes, Production Technology, Advanced Manufacturing Processes, Computer Aided Manufacturing and Process Analysis, Concurrent Design and Manufacturing, Integrated Product and Process Design, Numerical Control of Machine Tools, Engineering Statistics, Mechanical Behavior of Materials, Electron Microscopy of Materials.

PUBLICATIONS

J.S. Sahni and Y.B. Guo, A Comparative Study of White Layer by Hard Turning Vs Grinding, In Review, Int. Journal of Machining Science and Technology, Jan 2003.

J.S. Sahni and Y.B. Guo, A Study of Surface Integrity in Milling of Dies and Molds, Technical Report, Laboratory for Integrated Design and Manufacturing, The University of Alabama, Tuscaloosa, May 2002.

HONOURS/ACTIVITIES

Student member, Society of Manufacturing Engineers.
Member, Society of Mechanical Engineers
Member, Advisory Committee, Indian Association of Tuscaloosa.
Chief organizer of Yantriki 99-A national level technical symposium.

REFERENCES AVAILABLE UPON REQUEST

Dale Wayne Schwach

3550 Watermelon Rd. Apt. 30F
Northport, AL 35473
205-758-7294
dwschwach@excite.com

Objective

MANUFACTURING position that will use problem solving and interpersonal skills along with engineering experience to improve and maintain production quality.

Qualifications Summary

DETAILED AND RESULTS-ORIENTATED INDIVIDUAL with strong engineering and interpersonal skills focused in a manufacturing environment. Areas of competency include:

- Analysis
- Design
- Research
- Statistical Process Control
- Project Management
- Leadership

Education

THE UNIVERSITY OF ALABAMA, Tuscaloosa, AL — Expected May 2004
Master of Science in Mechanical Engineering
G.P.A. 4.0/4.0

MICHIGAN TECHNOLOGICAL UNIVERSITY, Houghton, MI — December 2002
Bachelor of Science in Mechanical Engineering
G.P.A. 3.1/4.0, Cum Laude

Work Experience

Department of Mechanical Engineering, Univ. of Alabama, Tuscaloosa, AL — January 2003 thru Present
Research Assistant/Teaching Assistant

- Assisted undergraduate students with questions and problems in laboratories. Set up and disassembled labs each week.
- Reviewed rolling contact fatigue testing systems and solved key issues through the design of a new novel rolling contact fatigue system.

TAMKO Roofing Products, Tuscaloosa, AL — January thru August 2003
Project Engineer – Roofing Plant

- Worked with a team to automate key aspects of production lines that would save costs of nearly $300,000 per year. Focused on communication with production, contract workers, and vendors to collect information and analyze ideas.

TAMKO Roofing Products, Tuscaloosa, AL — June thru August 2002
Draftsman – Fiberglass Plant

- Pinpointed variation source in data acquisition unit used for quality control of product. Focused on statistical process control, and assisting maintenance in engineering projects.

Publications

- D. Schwach, Y.B. Guo, 2003, "A Novel Design of a Rolling Contact Fatigue Testing System," Technical Report, Lab. of Integrated Process and Product Development, The Univ. of Alabama.

- D. Schwach, Y.B. Guo, 2003, "An Experimental Investigation on the Effect of Surface Integrity on Rolling Contact Fatigue," (working paper).

Computer Skills

AutoCAD	Matlab	LabView	AEWin
IntelliCAD	Abaqus	Microsoft Windows	Adobe Acrobat 5.0
Ideas	Statistica	Microsoft Office	Adobe Photoshop 6.0
Pro-E	Minitab	Microsoft Project	Some hardware knowledge

Leadership

President – Kappa Delta Psi social fraternity

- Lead cultural change within Fraternity and with Alumni through development of risk management and leadership programs that achieved regaining University recognition. Was recognized with the awards of IFC Greek Leader of the Year, Kappa Delta Psi Most Valuable Brother for Leadership, and recipient of the first Kappa Delta Psi Endowed Scholarship.
- Also served as Steward, Social, Pledge Captain, and 80th Reunion Chairman.

Project Mentor – MTU Youth Programs, Minorities in Engineering & Women in Engineering

- Mentored groups of 15 high school students in a week long engineering project. Educated students in the basics aspects of engineering design.

Program Coordinator - LeaderShape® Institue

- Coordinated funding, speakers, and other logistics for a weeklong leadership seminar. Also served as a participant the previous year.

Community Involvement

Big Brothers / Big Sisters

- Raised money each year through collecting donations for a bowl-a-thon.

Little Brothers Friends of the Elderly

- Volunteered during holidays to help with luncheons and dinners given to elderly citizens in the area.

Adopt-A-Highway

- Volunteered three times a year to clear a two-mile stretch of highway free of trash and debris.

Knights of Columbus

- Raised money each year for mentally disabled children by collecting donations.

JESSICA ANNA SEEGER

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University Address:
21 Christie St.
Troy, NY 12180 USA
Phone: (518) 222 9191

Permanent Address:
15 Longview Rd.
Hancock, NH 03449
Phone: (603) 525 4922

Objective A career in product design with focus on consumer product development

Education

Rensselaer Polytechnic Institute, Troy, New York **GPA: 3.5**
Bachelors of Science: Mechanical Engineering & Science Technology Studies dual major
Concentration: Product Design and Innovation Expected Graduation: May 2004

***Design* Experience**

Schick Wilkinson Sword, Milford,Connecticut Summer & Fall 2002
Co-op Staff Industrial & Product Designer, Consumer Products Innovation dept.
Designed ergonomic razor handles, (sketching, computer modeling, graphic design)
Assisted engineers as lab technician for new production line, **Patent pending**

Strategy By Design Consultants, Rotterdam, The Netherlands Summer 2001
Intern Product Designer, Designed User Interface of food services product,
Developed mechanical design of various airline food-trolley components, designed aesthetic desktop CD storage (CAD, material Modeling, Sketching)

G Media Works, Troy, New York www.gmediaworks.com Summer 2000
Staff Designer performing graphic Design, Website Design, writing, and photography;
Layout for "Today in the Catskills" newspaper; business cards and stationary for "E-Genie" Co.

SIGGRAPH (world's digital animation conference) New Orleans, Louisiana Summer 2000
Student Volunteer position awarded and admission granted, Networked computers, further prepared venue grounds for conference

***Entrepreneurial* Experience**

Hire My Brain LL&C, Troy, New York, now at http://www.beanstalk.com/ 2000 - Spring 2003
Co-founded a job placement and search publication for the NY Capitol Region
Developed business plan, Performed Graphic & Website Design, Generated content and writing

***Teaching* Experience**

Greater Hartford Academy of Math and Science, Hartford, Connecticut Summer 2003
"Partners in Science" program: guided students with State Science Fair projects

Rensselaer Polytechnic Institute, Troy, New York,
Teacher Assistant Instructor, Engineering Processes Fall 2001 – Spring 2003
Design Your Future Day, assistant instructor Spring 2002
Teacher Assistant Instructor, Computer Science II, C++ Fall 2000

Leadership & Activities

S.O.L.I.D. RPI Design club (cofounder), Professional Leadership Program Scuba-diving (Class manager 2001), *Polytechnic News Paper*, staff features story writer & photographer ('99-'00)
Member of **SME**; **SWE**; Rensselaer Ultimate Frisbee, Outing and Alpine-Skiing clubs

Skills

Language: Fluent in Dutch & English
Computer: Adobe GoLive & Photoshop, WindowsOS, MacOS, Pro Engineer, Maple, SolidWorks, IronCAD, Form-Z, Macromedia Fireworks & Director, Programming in C and C++
Classes: Introduction to Engineering Design, Product Design Studios I -VII, Digital Animation, Visual Communication, Community Networking, Digital Imaging, Design of Mechanical Systems

Honors: Dean's List, Alumni and Roebling scholarships, Mechanical Engineering Honors society (ΠΤΣ)

Justin R. Sheffield
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Current Address:
900 Hargrove Road #111
Tuscaloosa, AL 35401
(205) 366-1735

Permanent Address:
202 Peartree Circle
Dothan, AL 36301
(334) 677-6291

Objective
To obtain an internship position and gain engineering experience to further my engineering career.

Education
The University of Alabama, Tuscaloosa, Alabama
Bachelor of Science: Mechanical Engineering
Expected Graduation: May 2005
Major GPA: 4.00/4.00 Overall GPA: 3.80/4.00

Work Experience
Research Assistant, 5/03-Present
Department of Mechanical Engineering, University of Alabama, Tuscaloosa, Alabama
Assist professors on research involving spark-based combustion in diesel engines; Assisted professors with MACE (Magnetically Assisted Combustion Experiment), a research project investigating the effect of magnetic fields on combustion, by drafting machine components and constructing a self-contained test specimen designed to document research data and equipped with data acquisition (DAQ), AC/DC power distribution, fluid flow instrumentation, and A/V instrumentation.

Teaching Assistant/Tutor, 8/02-5/03 University of Alabama, Tuscaloosa, Alabama
Assisted professors with work in Matlab Programming and Introduction to Engineering courses by instructing and grading papers, and tutored freshmen engineering students in basic engineering courses.

Retail Clerk, 1/99-8/01 CVS Pharmacy, Dothan, Alabama
Stocked merchandise, operated cash registers, and maintained store appearance.

Honors/Activities
American Society of Mechanical Engineers
- Engineering Executive Council Representative, Spring 2003 – present
- Student Introduction to Engineering Counselor, Summer 2003
- Engineering Day Committee, Fall 2002/2003, helped department run open house
- High School Robotics Event Coach, Spring 2002/2003
- Science Olympiad Event Judge, February 2003

NASA Reduced Gravity Student Flight Program
- Combustion Project, Outreach Team Member, Spring 2002
- Threaded Assembly Project, Outreach Team Member, Generated AutoCAD Drawings, 2002-2003

Society of Automotive Engineers
Tau Beta Pi Engineering Honor Society
Phi Eta Sigma National Honor Society
National Society of Collegiate Scholars
President's/Dean's List

Computer Skills
Operating Systems: Windows 95/98/2000/ME/XP
Programming: Matlab, Visual Basic
Office Suites: Word, Excel, PowerPoint
Drafting: AutoCAD 2000/2002

Wesley Douglas Sherer

wesleysherer@yahoo.com

Current Address
P. O. Box 865466
Tuscaloosa, AL 35486
(205) 348-2234

Permanent Address
128 Mallard Dr.
Muscle Shoals, AL 35661
(256) 446-0422

Career Objective

I wish to work in an industrial or commercial environment in project management, consulting, or engineering design and eventually obtain my professional engineering license.

Education

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, AL 35487
Expected graduation: December 2003; Cumulative GPA: 2.94/4.00; Professional GPA (ME classes only): 3.15/4.00
Passed Fundamentals of Engineering Exam, April 2003
Design projects:

- Designed and constructed an underhand softball pitching machine
- Designed an alternative, cost-effective cleaning method for circulation water filtering screens for Southern Nuclear Plant Farley in Dothan, AL

Work Experience

Mechanical engineering co-op (alternating semesters from August 2000 – May 2002)
International Paper, Project Engineering, Courtland, AL

- Helped design and install a condensate conductivity probe system with automatic control valves in a condensate piping network – this system was used to protect a boiler from contamination
- Supervised night-shift work during a cold mill outage for two-and-a-half weeks which involved major rebuilds inside two lime kilns and repairs to two black liquor oxidation tanks
- Wrote many requisitions for ordering parts and contractor services for capital projects and also wrote a capital investment proposal which introduced a new project and was approved by mill management
- Oversaw installation of over a mile of a new underground potable water line
- Helped work on a project to heat water running to lime kiln pre-coat filters and mud dilution tanks
- Took measurements and performed CAD work on a barge dock expansion project
- Helped inspect various tanks and enclosed vessels for corrosion and scale during a mill outage
- Helped conduct a contractor bid meeting for a building-repair project
- Became familiar with the mill as well as mill drawings

Major Classes

Thermodynamics I & II, Heat Transfer, Modern Manufacturing Processes, Engineering Analysis, Static Machine Components, Dynamic Machine Components, Control and Instrumentation Components, Thermal Systems Instrumentation, Dynamic Systems, Energy Systems Design, ME Design I & II, Ground Source Heat Pumps, Propulsion Systems, HVAC, Circuits, Statics, Dynamics, Mechanics of Materials, Fluid Mechanics

Computer Skills

Microsoft Word, MS-DOS, Microsoft Excel, Microsoft Power Point, Microsoft Windows, Matlab, AutoCAD, MicroStation, Internet, E-mail

Honors/Activities

Sheffield High School Salutatorian, 1998
Sherer Scholarship ($5,000)
Engineering Scholarship ($1,500)
Alumni Leadership Scholarship (Freshman tuition)
Kappa Sigma Fraternity, Beta Chapter charter member
-House Manager, January 2003 – May 2003
-Judicial Board Member, August 2002 – May 2003
-Secretary, January 2000 – August 2000
-Assistant Secretary, September 1999 – December 1999
-Intramural Basketball and Softball, 2000 – 2003
American Society of Mechanical Engineers (ASME) student member
American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) student member
Dean's List

JEFFREY L. SIMS

9050 Carroll Manor Drive
Atlanta, Georgia 30350
678-461-4687
jeffsims_@hotmail.com

Objective

To obtain a fast pace engineering position with the opportunity for advancement.

Education

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, AL
May 1999
Cumulative GPA 3.19/4.0, ME GPA 3.48/4.0

Passed Fundamentals of Engineering Exam, October 31, 1998

Experience

Mechanical Engineer 1, June 1999 - Present
Kimberly-Clark Corporation, Staff Engineering, Roswell, GA

Mechanical feature engineer for multi-million dollar appropriations. Project lead engineer for appropriations up to $500,000. Managed outside engineering contractors in the design layout of a paper machine rebuild and first of a kind equipment. Designed and managed the installation of new converting equipment.

Engineering Intern, Summer 1998 – Summer 1999
Carlisle Engineered Products, Engineering Department, Tuscaloosa, AL

Assisted in the preliminary design of an assembly line for GM's Delta HVAC module. Designed and built test equipment to guarantee zero defects for the customer. Basic PLC programming. Project development and management. Involved in the development of a machine shop training program. Light machine shop experience. Maintained the computerized injection molding monitoring system. Administered and maintained company's computer network system.

Cooperative Education, Fall 1996, Summer 1997, Spring 1998
Carlisle Engineered Products, Engineering Department, Tuscaloosa, AL

Participated in KAIZEN programs to improve part production and to decrease scrap count. Conducted time studies on operator work cells. Improved operator work cells according to time studies to further increase operator performance. Assisted program engineers in the design, cost analysis, and implementation of packaging for automotive plastic components. Designed, built, purchased, and implemented test, secondary, and assembly operation equipment. Assisted in the plant layout for the Mercedes M-Class's plastic seating components. Managed an office expansion project. Implemented inter-office email.

Computers

AutoCAD R2K, Microsoft Windows, Microsoft Office.

Leadership

Pi Tau Sigma Mechanical Engineering Honorary, Dean's List, American Society of Mechanical Engineers

References

Available upon request

SANDRA MICHELE SPREADBURY

Local:
2010 Hackberry Lane
Tuscaloosa, AL 35401
sprea001@bama.ua.edu

Permanent:
1601 Brentwood
Muscle Shoals, AL 35661
(205) 345-3271

EDUCATION

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, Alabama
Expected Graduation: May, 2004
Cumulative GPA: 3.23/4.0
Senior Design: Currently working with team to design and build a battery powered vehicle for disabled children

EXPERIENCE

Engineering Co-Op (May 2003 – August 2003)
Kimberly-Clark Corporation, Infant Care Research – Neenah, Wisconsin
Completed research on current infant care product to analyze performance on market. Presented compatibility studies and technical reports to convey information found. Was registration chair for Kimberly-Clark sponsored Harbor House Tee Off which raised money for Harbor House Foundation.

Engineering Co-Op (May 2002 – August 2002)
Kimberly-Clark Corporation, Neenah Cold Springs Facility Project Engineer – Neenah, Wisconsin
Designed ductwork and material containment system for the material relocation facility of plant. Completed documentation and end of term presentation to provide necessary information regarding project. Committee head for Co-Op summer farewell.

Engineering Co-Op (August 2001 – December 2001)
Kimberly-Clark Corporation, Infant Care Engineering Global – Neenah, Wisconsin
Used AutoCAD, mechanical design (process and drives), equipment procurement, field verification, problem solving and engineering procedural systems to design new process for manufacturing infant care product. Lead trial and installation of design and equipment, as well as presented design to various company managers. Selected to assist in Kimberly-Clark recruiting at Purdue University and held position on Co-Op committee.

Engineering Co-Op (January 2001 – May 2001)
Kimberly-Clark Corporation, Infant Care Engineering North America – Neenah, Wisconsin
Improved AutoCAD skills by designing machinery and layouts for specific infant care functions. Worked on drive/pulley combination for all Ultratrim product lines and traveled to separate North American locations to assist in installation of design. Presented designs in end of term presentation.

COMPUTER SKILLS

Microsoft (Word, Excel, PowerPoint, Access, Windows 95-XP), Internet, AutoCAD, 3D AutoCAD, MATLAB

HONORS/ACTIVITES

- Society of Women Engineers
- Mini Baja Volunteer
- Mechanical Engineering Scholarship
- Who's Who Among American University Students
- Dean's List/President's List
- University of Alabama Crew Team
- Northwest Academic Athletic Female of the Year
- Varsity Tennis Captain
- Varsity Tennis Most Improved
- Varsity Tennis Most Spirited
- Academic All-Conference Varsity Athlete
- Athletic Director's Association
- Sports Medicine Society
- Building Supervisor, University of Alabama Aquatic Center
- American Society of Heating, Refrigerating and Air-Conditioning Engineers – University of Alabama, Vice President
- Pi Tau Sigma Mechanical Engineering Honor Society – University of Alabama, Corresponding Secretary
- American Society of Mechanical Engineers – University of Alabama, Social/Fundraising Chair
- Teachers Assistant – Water Safety Instruction, University of Alabama
- Alpha Omicron Pi – Cumberland University, Vice President of Academic Development

REFERENCES

Available upon request

KRISHNA MOHAN SRIREDDY

308 Grace Street, Apt # 347
Tuscaloosa, Alabama - 35401

205-246-1726(Cell), 205-759-2515(H)
srire001@bama.ua.edu

Objective:

Seeking a position in the field of thermal engineering to further develop my current skills and be helpful to raise the standards of the organization

Education:

The University of Alabama, Tuscaloosa, AL

- **Degree:** Master of Science (Expected June 2003)
- **Major:** Mechanical Engineering
- **Thesis:** Shapes of buoyant and nonbuoyant laminar slot diffusion flames
- **Related Coursework:** Advanced Internal Combustion Engines, Intermediate Heat Transfer, Classical Thermodynamics, Thermal Power Systems, Diffusion Flames and Combustion, Intermediate Fluid Mechanics, Matrix and Vector Analysis, C Programming, Mechanical Engineering Analysis

Andhra University, Visakhapatnam, India

- **Degree:** Bachelor of Engineering May 2001
- **Major:** Mechanical Engineering
- **Related Coursework:** Heat and Mass transfer, Thermodynamics, Power Plant Engineering, Finite Element Analysis, Optimization of Design, Production Technology, AutoCAD, Fluid Mechanics, Solid Mechanics, Instrumentation and Control Systems

Experience:

Graduate Research Assistant, August 2001-present

- Assisted with the design and construction of the reduced gravity flight test experiment for the 2002 NASA Reduced Gravity Student Flight Opportunities Program
- Coordinated design effort with undergraduate research team
- Developed a 3-D AutoCAD drawing of the experiment test cell
- Developed a LabVIEW code for the data acquisition system for the experiment
- Analyzed the behavior of flames at variousgravit ational levels
- Developed a FORTRAN code for generating flame shapes for momentum and buoyancy controlled regimes

Graduate Teaching Assistant, January 2002-present

- Conducted weekly review sessions and graded papers for Thermodynamics-I (ME 305) and Thermodynamics-II (ME 215)

Academic projects:

- Reviewed irreversibilities in a Carnot Engine for ME-605 Classical Thermodynamics course
- Developed a computer program (in C++) that can be used to design a parallel flow and cross-flow heat exchanger

KRISHNA MOHAN SRIREDDY

308 Grace Street, Apt # 347
Tuscaloosa, Alabama - 35401

205-246-1726(Cell), 205-342-9859(H)
srire001@bama.ua.edu

Computer skills:

- **Operating Systems:** DOS, Windows 95/98/2000/NT/XP
- **Programming Languages:** C, C++, FORTRAN 90, MATLAB, HTML
- **Engineering Packages:** AutoCAD 2002, Autodesk Inventor 5, Finite Element Heat Transfer, Interactive Heat Transfer, CREST, Labview, SigmaScan, SigmaPlot, Tracker
- **Other packages:** Microsoft Office, Adobe Photoshop, Adobe Illustrator, Adobe Premiere, CHEMDRAW

Publications:

- Srireddy, K., Varagani, R., and Baker, J., 2003, "Influence of Gravitational Level on Laminar Diffusion Slot Flame Behavior," 41st Aerospace Sciences Meeting and Exhibit, AIAA Paper No. AIAA-2003-0806, Reno, Nevada

Awards and Activities

- **Award of Excellence**
  For attainment of first place in the paper presentations given at the Sixth Annual University of Alabama Graduate Student Research Conference.
- Member of American Institute of Aeronautics and Astronautics (AIAA)

References:

Available upon request

BLAKE STUART

blake.stuart@ua.edu
690 Balaclava Drive
Greenville, AL 36037
Telephone: (334) 382-6233
Cell Phone: (205) 454-7241

EDUCATION:

Master of Science: Mechanical Engineering
Emphasis: Controls
The University of Alabama, Tuscaloosa, AL
Graduated August 11, 2003
Graduate GPA: 3.903/4.000

Bachelor of Science: Mechanical Engineering
Minor: Computer-Based Honors
The University of Alabama, Tuscaloosa, AL
Graduated Summa Cum Laude May 19, 2001
Overall GPA: 4.000/4.000, Major GPA: 4.000/4.000

Passed Fundamentals of Engineering Exam on April 15, 2000

WORK EXPERIENCE:

Controls and Instrumentation Lab Instructor, Spring 2002
Department of Mechanical Engineering, the University of Alabama, Tuscaloosa, AL
- Prepared Experimental Apparatuses for Lab
- Assisted Students with Experiments
- Traveled to Troy State University in Dothan, AL for Instruction at Mobile Lab Site

Engineering Graphics Instructor, Fall 2001
Department of Mechanical Engineering, the University of Alabama, Tuscaloosa, AL
- Instructed Students on 2D AutoCAD Version 2000
- Assisted Students in Completion of In and Out of Class Projects
- Graded Students' Papers

Summer Engineer, Summer 2001
Engineering Research Company, Incorporated, Huntsville, Alabama
- Contractor for Marshall Space Flight Center, Huntsville, Alabama
- Worked with Many NASA and Contractor Employees
- Developed New Valve Design for 3rd Generation Reusable Launch Vehicle Applications, Using Unigraphics for 3D Modeling and Structures Module for 1st Cut Stress Analysis
- Developed Flow Rate Calculator for SRB Helium Auxiliary Power Unit Testing
- Participated in Regulator Testing
- Assisted in Regulator Test Article Disassembly and Inspection

Manufacturing Engineering Summer Intern, Summer 2000
Delphi Automotive Systems, Athens, Alabama
- Assisted with Startup of New Production Line – Work Consisted of Machine Capability Studies and Product Quality Inspection
- Conducted Tool Life Study For Deep Hole Drills
- Assisted in Identification of Broach Pusher Stops

Assistant Lab Manager, Summer 1999-Spring 2000
Computer-Based Honors Program, the University of Alabama, Tuscaloosa, AL

Engineering Graphics Grader, Fall 1999
Department of Mechanical Engineering, the University of Alabama, Tuscaloosa, AL

Assistant Computer Support and Installation Technician, Summer 1998
Retirement Systems of Alabama, Montgomery, Alabama

COMPUTER SKILLS:

Assembly Programming of 805x Microcontrollers, Unigraphics, MathCAD, PLC's and Relay Ladder Logic (Direct Logic and Allen Bradley PLC05), LABView, ANSYS & ABAQUS (FEM/FEA), MSC-PATRAN, AutoCAD (R13 - 2000) 2D and 3D, Matlab, Simulink, xPC Target, SigLab, Maple, Macromedia Dreamweaver and Fireworks, Corel Draw, FORTRAN, C, IBM Assembly for VM/CMS, UNIX, IBM Mainframe, PC, Mac, Word 2000, Excel 2000, Access 2000, Powerpoint 2000, Publisher 2000

SENIOR DESIGN PROJECTS:

- Fishing Apparatus for Quadriplegic / ASME Snoopy Fishing Competition
- NASA Slide Valve Weight Minimization

COMPUTER-BASED HONORS PROJECTS:

- Data Acquisition and Testing Machine Control – Created LABView Data Acquisition Program to Interface with Tensile Testing Machine for Mechanics of Materials Laboratory.
- User Material Model for ABAQUS – Developed ABAQUS Subroutine in FORTRAN to Simulate Uni-axial Stress State Based on Hooke's Law.
- Subject-Specific Modeling of the Human Body – Constructed ANSYS Model of Astronaut Femur From MRI Images.
- Microsoft Access Advising Assistant – Developed Access Database for Professors to Track Student Classes to Make Student Advising and Scheduling Faster and Easier.

HONORS/AWARDS/ACTIVITIES:

Alabama Space Grant Consortium Fellow 2002-2003
UA Pi Tau Sigma Chapter's Outstanding Graduate Student
Tau Beta Pi Graduate Fellow 2001-2002
Phi Kappa Phi National Honor Society
Mortar Board Senior Honorary
Omicron Delta Kappa Senior Honor Society
Golden Key International Honour Society
- Web Page Coordinator, 2000
- Treasurer/Web Page Coordinator, 2001
- Treasurer, 2002-2003

President's List: Fall 1998, Summer 1999, Fall 1999, Spring 2000, Fall 2000, & Spring 2001
Dean's List: Fall 1997, Spring 1998, & Spring 1999
Pi Tau Sigma Mechanical Engineering Honor Society
- Treasurer, 2002-2003 school year

Tau Beta Pi Engineering Honor Society
Outstanding Sophomore Mechanical Engineer
American Society of Mechanical Engineers (ASME)
Computer-Based & University Honors Program
Gamma Beta Phi Honor Society
Alpha Lambda Delta Freshman Honorary, Phi Eta Sigma Freshman Honorary
American Red Cross Blood Donor, National Merit Finalist, Valedictorian

PUBLICATIONS:

- Swindle, Stephanie Horne, Beth A. Todd, Blake Stuart, et al, "STEPSS – Students Tackling Exercise Procedures for Space Station," Final Report, Texas Space Grant Consortium, 1999.
- The University of Alabama Structural Durability and Fatigue Performance Group, Report #132 "Implementation of Hooke's Law as an ABAQUS User Subroutine," B. Stuart, August 1999.

References Available Upon Request

9/18/2002

ROMIL TANNA

308 Grace Street, Apt # 147, Tuscaloosa, AL 35401 (willing to relocate)
Phone (home/cell): (205) 3429951 / 2928436
Email: rtanna@ua.edu

Seeking research and development position in automotive NVH, structural dynamics, acoustic noise control, and mechanical design/analysis.

Summary of Qualifications

- Proficient with I-DEAS, ANSYS, Matlab. Working knowledge of NASTRAN, Hypermesh.
- Skillful in analytical dynamics, vibration (discrete & continuous systems) and acoustics.
- Experience with Polytec VibraScan scanning laser, VXI and PL302 data acquisition system.
- Strong communication skills. Self-motivated and dedicated. Able to travel as needed.

Education

PhD in Mechanical Engineering. University of Alabama. Expected completion: October 2002
Specialization: Vibrations, Dynamics and Acoustics. Advisor: Dr. Teik C. Lim
Dissertation: Vibration Transmissibility through Ring Gears. **GPA: 3.88/4.0**

MS in Mechanical Engineering. Sardar Patel University, India. 1997
Specialization: Mechanical Design and Analysis. **GPA: 4.0/4.0**
Thesis: Application of Finite Element Method in Analysis of Machine Structure.

BS in Mechanical Engineering. University of Mumbai, India. 1995
Project: Study, Design and Selection of Mechanical Seals. **First class with Honors**

Research and Technical Experience

Research Assistant, Vibro-Acoustics and Sound Quality Laboratory 08/99 - Current
Dr. Teik C. Lim, University of Alabama, Department of Mechanical Engineering.

- Development of design charts based on parametric studies using Finite Element Analysis.
  - Minimizing vibration transmissibility through ring gears to avoid structure-borne noise.
  - Analysis on free vibration and forced response of ring gears using I-DEAS simulation.
- Modal experiments using PSV laser vibrometer, VXI and PL 302 data acquisition systems.
- Installed Polytech VibraScan PSV-300 scanning laser and OSV-400 rotational vibrometers.

Research Assistant, Vibration and Acoustics Laboratory 08/98 - 08/99
Dr. Sally A. McInerny, University of Alabama, Department of Mechanical Engineering.

- Extensive review on current and past research and developing efforts on
  - gas turbine engine condition monitoring systems (ECMS),
  - various sensors and sensing techniques of gas turbine ECMS.

Design Engineer, Fabricated Equipment Group 08/97 - 06/98
Humphreys and Glasgow Consultants Ltd., Mumbai, India.

- Design of pressure vessels, storage tanks, heat exchangers, columns, and silos using various codes such as ASME, API, DIN, BS etc.
- Development of company standard for saddle support.

Published Research and Conference Papers

1. Romil P. Tanna and Teik C. Lim, "Modal Frequency Errors in Estimating Ring Gear Modes using Smooth Ring Solutions," (in-preparation, 90% complete). 2002.
2. Romil P. Tanna and Teik C. Lim, "Parametric Analysis of Ring Gear Structure Modes," (in-preparation, 90% complete). 2002.
3. Romil P. Tanna and Teik C. Lim, "Natural Mode Sensitivity of Automotive Transmission Ring Gear Structure," *Proceedings of the International Congress and Exposition on Noise Control Engineering 2002*, Dearbon, MI, USA, August 19-21, 2002.
4. Parag H. Mathuria, Romil P. Tanna, and Teik C. Lim, "Determining Modal Density of Ring Type Structures Applying Experimental and Finite Element Approaches," *Proceedings of the Ninth International Congress on Sound and Vibration,* Orlando, FL, USA, July 8-11 2002.
5. Romil P. Tanna and Teik C. Lim, "Effects of Boundary Conditions on the Natural Modes of Transmission Ring Gear Structures," *Proceedings of the SAE 2001 Noise and Vibration conference and Exposition*, Paper No. 2001-01-1416, Traverse City, Michigan, April, 2001.
6. S. A. M^{c}Inerny and R. Tanna, "Engine Condition Monitoring Systems – An Overview". Presented at *The 18th IEEE/AIAA Digital Avionics Systems Conference*, St. Louis, Missouri, October 24-29, 1999.
7. Romil P. Tanna, "Application of Finite Element Method in Analysis of Machine Structure," *M.S. Thesis*, Sardar Patel University, India, 1997.

Computer Skills

Operating systems	: MS DOS and Windows, SGI Unix,
Programming languages	: C, Matlab, FORTRAN, BASIC.
Application Softwares	: ANSYS, I-DEAS (Simulation and Test), AutoCAD, MS Office, Maple, AutoLISP, NASTRAN, Hypermesh, MathCAD.
Currently learning	: ADAMS

Honors & Awards

- Graduate Council Thesis/Dissertation Fellowship, University of Alabama, 2000-01.
- Graduate Council Presidential Fellowship Supplement award, 2000-01.
- Graduate Research Assistantship, University of Alabama, 1998-00 and 2001-02.
- Awards for standing first in MS.
- Awards for standing second in class in BS.
- Third prize at West Zone Science exhibition, India for the exhibit "Ozonizer" in grade IX.

Additional Information

- Student member of SAE and INCE.
- Advisory board member, Indian Association of Tuscaloosa, University of Alabama, 2001.
- Public Relation Officer, Indian Association of Tuscaloosa, University of Alabama, 2000.
- President, Shree Lohana Yuvak Mandal (Community Youth Organization), India, 1996.
- Founder member and Finance Incharge, Mechanical Engineering Student Association, Bharati Vidyapeeth's college of Engineering, New Bombay, India, 1992, 1993, 1994.

References can be provided if requested.

SHAWNA M. TERHERST

3515 E. 16th Ave. Spokane, WA 99223 Phone: (509) 994-4565 Email: shawna.terherst@swe.org

EDUCATION

- 2003 Bachelor's degree in **Mechanical Engineering Technology,** Eastern Washington University
- 1999 Associate of Arts degree in **Liberal Arts**, Spokane Community College
- 1998 Associate of Science degree in **Mechanical Engineering Technology,** Spokane Community College
- 1997 Certificate in **Fluid Power Technology,** Spokane Community College

EMPLOYMENT

- June 2003 – Present, **Contract Programmer**, United States Air Force, Fairchild AFB, WA
- August 2002 – June 2003, **Concierge/Guest Services Supervisor,** Red Lion Hotel at the Park; Spokane, WA
- September 2001 – August 2002, **Crew Member,** University of Washington Aeronautical Laboratory, Seattle, WA
- June 2001 – May 2002, **Orientation Leader,** New Student Programs, University of Washington, Seattle, WA

SOFTWARE

Title	Years Used	Title	Years Used
AutoCAD	2 +	Microsoft Project	.5
Solid Works	1	Unigraphics	.5
Visio	1	Microsoft Office	5

OCCUPATIONAL EXPERIENCE

- Supervise bellmen, valets, and van drivers in daily guest service and relations for 402-room premier conference and recreation establishment; creating training manual and implementing guest service standards.
- Perform operations duties conduct aeronautical testing of models provided by commercial customers from around the world.
- Create lessons, organize presentations and teach incoming students and their parents about majoring in Math, Science or Engineering and Student Life at the University of Washington.
- Public address to audiences upwards of 500 - 1000 people.
- Design and complete detailed plan for CoE Facilities and Physical Plant administrators to relocate faculty and staff offices from five departments/programs within three CoE buildings.
- Assisting in planning and orchestration of faculty, student and industry events for the SCORE Office in CoE (students & community colleges), the Office of Organizational Infrastructure (academic affairs) including UW Engineering Open House and annual SCORE meeting in Vancouver, WA.
- Organize annual IEEE awards banquet, Electrical Engineering Department, University of Washington.
- Generate strategy for Eastern Washington University Athletics music and entertainment during home games.
- Act as partner with PA speaker to lead entertainment/sound portion of EWU Athletic games.

PROFESSIONAL AFFILIATIONS

- Society of Women Engineers Student Member, 2003-2004 Region J Student Representative
- American Society of Mechanical Engineers Student Member
- Society of Manufacturing Engineers Student Member

SCHOLASTIC ACTIVITIES

- Undergraduate instructor, incoming transfer engineering students through CoE and New Student Programs, UW
- College of Engineering Open House Volunteer, UW
- Eastern Washington University Dean's List, 2002-2003
- Spokane Community College Presidents Honor Roll, 1996 – 1999
- National Honor Society President, Riverside High School 1994 - 1996
- EWU Technology Club Member
- Washington Award for Vocation Excellence (WAVE scholarship), 1998
- Eastern Washington University Human Powered Paper Vehicle Competition, 2nd place, 1998.
- Society of Women Engineers, Excellence in Math and Science Award, 1996
- Washington State Junior Science and Humanities Symposium 1st Place winner, 1996
- 33 hours in-the-classroom experience student-teaching High School Chemistry, tutoring Math, 1999
- Riverside High School Jr. Miss 2nd runner-up (Scholarship received)

MAHESH THEKKAR
313 Reed Street Apt #271
Tuscaloosa, AL 35401
(205) 342-9812
thekk001@bama.ua.edu

OBJECTIVE

To obtain a Full-time engineering position or an Internship in the mechanical industry, utilizing my ability to work as a team member and contribute to the design, development and testing of products and services.

EDUCATION

Master of Science: Mechanical Engineering
The University of Alabama
Tuscaloosa, AL
Expected Graduation: August 2003 GPA: 3.0

Bachelor of Engineering: Mechanical Engineering
Manipal Institute of Technology,
Manipal, India
Graduated: July 2000

THESIS

Title: Computational heat transfer Analysis of Compact Heat Exchangers with phase change.
Abstract: Compact heat exchangers are becoming a necessity in this modern world. As the devices get smaller and smaller one has no space to spare when one thinks of a heat exchanger that has to be incorporated in the design. Main aim of this research is to analyze the compact heat exchanger and to assert that one can get the same results from a smaller heat exchanger with proper design.

COURSES INCLUDE

Finite Element Analysis of Convection Heat Transfer, Intermediate Heat Transfer, Intermediate Fluid Mechanics, Principles of IC Engines, Statistical Quality Control, Genetic Algorithms in Optimization and Machine Learning, Airfoil and Wing Theory.

EXPERIENCE

Graduate Research Assistant, The University of Alabama, Tuscaloosa, AL. Jan 2002- present
Currently working on research project using commercial FEM software, dealing with Analysis of heat exchangers, by incorporating phase change in fluid flowing through passage. Analyzed many heat exchangers up to date and have incorporated phase change in some of them. Presently analyzing thermal variations and phase change in coiled tube heat exchanger.

Assistant Supervisor, Ingersoll –Rand India, Bangalore, India. Aug 2000 - May 2001
Critiqued the design before manufacturing. Coordinated and led production group to reach production target. Introduction of new methods to improve working conditions like KAIZEN. This resulted in increase of production by 50%. Also have done various projects which reduced the bookkeeping.

Engineering Intern, Mysore Kirloskar, Harihar, India. Summer 1999
Worked as assistant to the supervisor of Mysore Kirloskar. Trained for management of production shop.

Engineering Intern, Perfecto Inc., Dharwad, India. Summer 1998
Developed and implemented procedure for filing drawings using product numbering sequence, and created a database in Microsoft Access to procure drawings when required for production.

Also converted all drawings required for manufacturing to AutoCAD according to ISO requirements

PROJECTS

Optimization of thrust of airplane propeller using Genetic Algorithms, Fall 2001
This project was submitted as a partial requirement for the completion of the course of Introduction to Genetic Algorithm. In this project the thrust provided by the airplane propeller was optimized by changing the tilt of the propeller blades so as to utilize less power by the propeller system.

Product Database System, (Ingersoll –Rand India), September 2000
Development of a product database using Microsoft Access. Interactive Querying and Report Generation functions were implemented. This system can access any model and generate detail about the models such as manufactured date, person working on it, number of hours to manufacture the model, rework information and field problems. Also, the database could generate a detailed report on the model from the kind of material used to the vender's name that had the subcontracts of the model.

Production Database Systems (Ingersoll –Rand India), December 2000
Development of a production database using Microsoft Access. This system keeps track of raw material and assembly parts that had to be procured. This system also tracks fabricators daily output. It gives reorder reminders for all the procured as well as in house, manufactured material.

Optimization of brake shoe liner using Genetic Algorithms and ANSYS (FEM software), December 1999
Under the guidance of Mr. Karanth, Manipal Institute of technology, Manipal, a code was written in Genetic Algorithm to minimize the thickness of a brake shoe liner of the drum brakes. The results were also compared with the model that was created and optimized using ANSYS. It was proved that Genetic algorithm gave better results than the ANSYS.

COMPUTER SKILLS

Operating Systems	DOS, Windows, UNIX, LINUX
Languages	C, C++, FORTRAN, Basic, Mat Lab
Databases	Microsoft Access
Software	ANSYS, FIDAP, GAMBIT, Auto CAD, Microsoft Word, Microsoft Excel, Microsoft Power Point
Internet Tools	HTML

ACTIVITIES/LEADERSHIP
Mentor Program University of Alabama
ME&IP Manipal Chapter
Member of Board of Directors in the Student council in Manipal Institute of Technology, India
Official speaker for the mechanical department in Manipal Institute of Technology, India

REFERENCES
Available upon request

Kari J. Thompson

3359 Coachman Road #208,Eagan, MN 55121
(651) 905-0310
kjthompson1@stthomas.edu

Objective

To help a company meet its goals by utilizing the engineering and business skills I have developed during my education.

Education

Bachelor of Science in Mechanical Engineering and Bachelor of Arts in Business Administration, May 2004
University of St. Thomas, St. Paul, MN
GPA of 3.133 on a 4.0 scale

Courses taken include:

Extensive Thermodynamic lab experience	Finance
Thermodynamics, Heat Transfer, and Fluid Flow	Accounting
Materials Science	Marketing
Numerically Controlled Machining	Management

Scholarships Received

National Science Foundation Scholarship 2001-2002 and 2002-2003

Computer Skills

SolidWorks	Simulink	Minitab	Microsoft Project
Microsoft Office Package	P-Spice	MatLab	Visual Basic/C

Activities/Honors:

Society of Women Engineers (SWE), (Elected Co-President for 2003-2004)
American Society of Mechanical Engineers (ASME)
Volunteer Math tutor in Math Center
International Experience including study abroad in France and Italy

Experience:

Supervisor, August 2003 to Current
Jillian's (Gators) Mall of America, Bloomington, Minnesota

- Supervise and train servers, bartenders, door hosts, beer tubs, shooter girls and kitchen staff
- Responsible for assisting Manager in all aspects and functions of the Nightclub operations, in accordance with company standards
- Directing, implementing and maintaining a philosophy congruent with company goals and expectations of effective leadership and outstanding guest service

Bartender and Shooter girl, May 2003 to August 2003
Cowboys Night Club, Kennesaw, Georgia

- Participated in competitive selling practices of alcoholic beverages within establishment
- Directly interacted with guests to assure optimal guest satisfaction

ANNMARIE USKERT, E.I.T.

6141 LAKE LIZZIE DRIVE • SAINT CLOUD, FL 34771
PHONE 407-421-1648 • E-MAIL AUSKERT@UCF.EDU

OBJECTIVE

To obtain a position in Mechanical Engineering, with aspirations of Managing in a Technical Organization

EDUCATION

Master of Science Mechanical Engineering, University of Central Florida, Orlando, FL, Spring 2006

Bachelor of Science Mechanical Engineering, Design of Mechanical Systems and Applications, GPA 3.4/4.0, University of Central Florida, Orlando, FL May 2002

EXPERIENCE

United Space Alliance, Crane Operations, Kennedy Space Center, FL September 2003-Present
Systems engineer operation and maintenance of cranes, doors and platforms for all space shutting processing. Includes mate and de-mate of the shuttle orbiter to solid rocket boosters, stacking and de-stacking of solid rocket boosters, and operation and maintenance of all doors and platforms at Kennedy Space Center.

Living Color Enterprises, Inc, CAD Designer, Ft. Lauderdale, FL, June 2003-August 2003
Designed standard line and custom aquariums for customers using AutoCAD 2000; Designed structural stands for standard line and custom aquariums using AutoCAD 2000; Specified electrical, plumbing, cabinetry and water flow diagrams for life support systems; Organized a system for archiving aquariums and structural stands

Disney Ride & Show Engineering, Instrumentation Support, Orlando, FL, December 2000-June 2003
Designed various components for mechanical ride systems; Experienced in laying strain gauges, utilizing accelerometers, familiar with circuit boards, soldering, and preparing cables; Collect and process data to create charts, tables, graphs and reports for customers; Knowledge in relevant data processing programs; Responsible for organizing and archiving data and test materials; Assist in scheduling tests for SARC acceleration data collection

Lockheed Martin Corporation, Electrical Packaging, Orlando, FL, August 1999-July 2000
Participated in meetings of project management; Organized and maintained a filing system for drawings and specifications of mechanical assemblies; Utilized Microsoft applications to complete assignments; Learned basic ProEngineer skills

COMPUTER SKILLS

AutoCAD, ProEngineer and basic Ideas applications, MatLAB, Sony PC Scan, Microsoft Word, Excel, PowerPoint, and Internet Explorer

HONORS

Pi Tau Sigma Honor Society, UCF Dean's List, Florida Academic Scholar; 2002 Part-time Graduate Fellowship

AWARDS

2002 SWE Boeing Team Tech Competition; 2002 SWE Outstanding Student Section National Competition; 2002 Exxon-Mobil Grant; 2000 ASME IMECE Student Session Aide Plaque; 2001 ASME Ingersoll-Rand Certificate; 2002 ASME Ingersoll-Rand Certificate

PROFESSIONAL MEMBERSHIPS

Society of Women Engineers: 2002-2003 President; Support Dean of Engineering in Recruitment and Retention Programs to Increase and Maintain Women Students in UCF's Engineering Program; 2001-2002 President; 2000-2001 Historian, Region D Student Conference Chair and Career Development Chair; 1999-2000 Career Development Committee and Meeting Coordinator

American Society of Mechanical Engineers: 2002-2003 Student Regional Representative to Region XI; 2002-2004 Student Section Committee Member; 2002-2003 Historian; 2001-2002 Vice President, Increased student chapter activities, events and member participation; 2000-2001 Vice President

Dean's Student Advisory Council: 2003-2004 President; 2001 Engineering Exposition Chair

UCF Engineering Alumni Chapter: 2002-2003 Secretary; Member since 2002

Rajani Kanth Varagani

1108 14th Avenue
Apt#321,
Tuscaloosa, Alabama-35401

Ph: 205-246-2036 (Cell); 205-752-3952 (H)
E-Mail: varag001@bama.ua.edu
URL: www.rajvaragani.com

Objective

To acquire a challenging position in the field of Mechanical Engineering with an emphasis on thermal systems or related areas that will allow me to utilize and enhance my current skills.

Education

The University of Alabama, Tuscaloosa, Al.

- **Degree:** Master of Science, expected April 2003
- **Major**: Mechanical Engineering
- **Minor**: Industrial Engineering
- **GPA**: 3.92/4.00
- **Thesis**: "Temperature Measurements of Laminar Diffusion Flames in Non Uniform Magnetic Fields Using Laser Holographic Interferometry"
- **Related Coursework**: Engineering Thermodynamics, Internal Combustion Engines, Convection Heat Transfer, Mechanical Engineering Analysis, Intermediate Fluid Mechanics, Systems Simulation, Engineering Management, Expert Systems, C++ Programming, Partial Differential Equations, Statistics.

Osmania University, Hyderabad, India.

- **Degree**: Bachelor of Engineering, May 2000
- **Major**: Mechanical Engineering
- **Minor**: Production Engineering
- **GPA**: 3.8/4.00
- **Project:** Optimization of buckling strength of thin cylindrical shells with cutouts by finite element analysis using ANSYS.
- **Related Coursework**: Applied Thermodynamics, Heat Transfer, Fluid Mechanics, Turbomachinary, Mechanics, Dynamics, CAD/CAM, Machine Design, Product Design and Process Planning, Metal Casting, Metal Forming, Fabrication Processes.

Experience

Graduate Research Assistant, Aug 2001-Present

Holographic Interferometry

- Constructed a Holographic Interferometer to study the temperature profiles of laminar diffusion flames.
- Currently studying the mechanisms of laminar diffusion flames and their temperature profiles in non-uniform magnetic fields using holographic interferometry technique.

2003 NASA Reduced Gravity Student Flight Opportunities Program

- Assisting in designing the reduced gravity flight test experiment to study the effect of non uniform magnetic fields on diffusion flames in microgravity.

2002 NASA Reduced Gravity Student Flight Opportunities Program

- Assisted in analyzing the microgravity flames data obtained from the reduced gravity flight test experiment.

Buoyancy and Momentum Controlled Flames

- Collected and analyzed the data for a journal paper to be submitted on buoyancy and momentum controlled slot diffusion flames.

Graduate Teaching Assistant, Jan 2001-July 2001.

- Worked as tutor and grader for the course ESM-250, Mechanics of Materials.

Graduate Assistant, August 2000-May 2001.

- Designed and implemented Web pages of manuals for Alabama Department of Transportation.

Academic Projects

- Reviewed exergy analysis as applies to internal combustion engines.
- Solved 2D convection diffusion problem in heat transfer by a simulation code in MATLAB.
- Solved different types of partial differential equations in MATLAB.
- Conducted an experimental investigation into the use of methanol, ethanol and Jatropha oil as alternate fuels in compression ignition engines.
- Developed an Expert System in Level 5 Object.
- Simulated and optimized a traffic intersection using Arena, a simulation software.

Technical Publications/Presentations

- Baker, J., Varagani, R., and Saito, K., "Theory and Experiments of Diffusion flames in Non-Uniform Magnetic fields," to be presented at 7th International Workshop on Microgravity Combustion and Chemically Reacting Systems, Cleveland, Ohio, 2003.
- Varagani, R., and Baker, J., "Temperature Measurements of Laminar Diffusion Flames in Non-Uniform Magnetic Fields Using Holographic Interferometry," to be presented at Third Joint Meeting of the U.S. Sections of The Combustion Institute, Chicago, Illinois, 2003.
- Srireddy, K., Varagani, R., and Baker, J., "Influence of Gravitational Level on Laminar Diffusion Slot Flames," 41st Aerospace Sciences Meeting and Exhibit, AIAA Paper No. AIAA-2003-0806, Reno, Nevada, 2003.
- Muralikrishna, M.V.S., Varagani, R., and Durgam, P., "Investigations on Jatropha Oil as a Substitute Fuel for Compression Ignition Engines", FERVOR '99, University College of Engineering, Pune, India, 1999.
- Muralikrishna, M.V.S., Varagani, R., and Durgam, P., "Investigations on Ethanol and Jatropha Mixtures on a Semi Adiabatic Diesel Engine", MACH '99, Delhi College of Engineering, New Delhi, India, 1999.
- Varagani, R., and Durgam, P., "Heat Transfer Analysis of a Non-Newtonian Fluid Flowing Between Parallel Plates", INSAT '99, S. E. S. College of Engineering, Dhule, India, 1999.

Computer Skills

- Operating Systems: MS-DOS, Windows 95/98/00/NT/XP
- Languages: C, C++, MATLAB, Fortran, Pascal
- Packages: Microsoft Office, Autocad, Mathcad, Crest, Sigma Scan, Sigma Plot, ANSYS, Arena, Minitab, Level 5 Object

Honors and Activities

- Member- Alpha Phi Mu, The University of Alabama Chapter.
- Designed, implemented and maintained web pages of Indian Association of Tuscaloosa, Alabama.
- Obtained complete scholarship for my undergraduate study through an entrance examination.
- Received certificate of merit and cash award on institute day celebrations as one of the best outgoing student from my undergraduate school

References Available upon request

HORACIO VASQUEZ

Place of Birth: Costa Rica

Permanent Residency: USA

P.O. Box 863002
Tuscaloosa, AL 35486-0027
E-mail: horacio.vasquez@ua.edu; Telephone: (205) 247-5651

CAREER OBJECTIVE

Research, Development, and Design in Mechanical Engineering, with Emphasis in Control Systems, Instrumentation, Mechanical and Electromechanical Systems, Mechatronics, and Automation.

EDUCATION

Ph.D. in Mechanical Engineering with minor in Electrical Engineering
The University of Alabama, May 2003. GPA: 4.00/4.00
Dissertation: *Variable Speed Control of a Switched Reluctance Motor in a Heat Pump Application.*
Developed and validated a simplified mathematical model for a 6/4 switched reluctance motor (SRM).
Designed and implemented a new control system strategy to regulate the speed of a SRM driving a centrifugal pump in a ground-source heat pump.
Designed and constructed DSP-inverter-SRM and pump-stand setups for experimental analysis.
Compared the performance of the 6/4 SRM and a similar induction motor driving the same centrifugal pump.

Master of Science in Mechanical Engineering
The University of Alabama, December 1993. GPA: 4.00/4.00
Thesis: *Automatic Control System for a Variable-Speed Ground-Source Heat Pump.*
Modeled a VSGSHP operating in heating mode.
Designed and simulated a gain-scheduling PID controller for the heat pump.
Established and simulated the rules to determine the heat pump operating mode among four possibilities to heat room air and/or utility water.

Bachelor of Science in Mechanical Engineering. Magna Cum Laude.
The University of Alabama, December 1991.
Electives: Advanced Instrumentation, Robotics, HVAC. GPA: 3.72/4.00

Mechanical Engineering Courses.
University of Costa Rica. 1985-1988. GPA: 83/100
Freshman and Sophomore level courses in ME. Basic French courses in 1999.

Study Areas: Control Systems, Instrumentation, PLCs, DSPs, DAS, Electronics, Machinery Design, HVAC, Vibrations, Computer Graphics, Manufacturing, Neural Networks, MEMS, Robotics.

COMPUTER SKILLS

MATLAB, AUTOCAD, Assembly Language, Labtech Notebook, Labview, VisualBasic, QuickBasic, Fortran, Pascal, graPHICS, CAEDS, PLC_Direct, PSPICE, MAPLE, Cadence for PCB, MS Office

LANGUAGES AND ACTIVITIES

Spanish, basic French; soccer intramural, ping-pong, music, repairing, and riding bicycles, sports in general; tutoring.

EXPERIENCE

Research Assistant.
University of Alabama. January 2002 - Present.
Research in the areas of switched reluctance motors, control systems, DSPs, power electronics, and heat pumps.

Teaching Assistant.
University of Alabama. August 2000 - December 2001.
Instructor for ME-360 Control Instrumentation Components Laboratory.
Prepare and organize the laboratory, and assist students during experimental sessions.

Instructor.
Mechanical Engineering Department. University of Alabama.
First Summer Term 2001.
Teach ME-372 Dynamic Systems Analysis. Modeling of mechanical, electrical, and electromechanical systems using state variable equations. Symbolic solutions to the mathematical models using MAPLE and MATLAB and numerical solutions using MATLAB and MATLAB SIMULINK.

Associate Professor, Tenure Position. Consulting Engineer.
Mechanical Engineering Department. University of Costa Rica.
February 1994 – August 2000.
Undergraduate Courses: Statics, Dynamics, Instrumentation, Mechanics of Fluids, Analysis of Dynamic Systems, and Mechanisms.
Graduate Courses: Numerical Methods, Advanced Instrumentation, and Control Systems.
Other tasks:
- Coordinator of laboratories and computer systems
- Request, organize, and order new equipment for the ME department
- Theses advisor
- Member of orientation and evaluation commission
- Member of master program commission

Research Projects:
- Design and construction of a mechanical manipulator with two degrees of freedom and its control system.
- Design and construction of an alarm based on an 8031 microprocessor.

Researcher.
National Institute for Learning (INA).
August-December 1996.
Research in the area of materials handling, and visits to local industries in order to determine the profile of the material handling technician needed.

Teaching Assistant.
The University of Alabama, 1992-1993.
Teach undergraduates how to utilize equipment in the instrumentation laboratory. Design and modify experiments. Order equipment and materials for the lab.

Design Clinic Project.
Bush Hog, Selma, Alabama. Fall 1991.
Assisted in the analysis and testing of power-take-off shafts for tractors.

EXPERIENCE CONT.

Construction and Farming.
Assisted in the construction and painting of houses. Worked in coffee and corn plantations. Worked installing and checking automatic gate openers.

PUBLICATIONS AND OTHERS

Design and Control of a Mechanical Arm. Journal: Ingeniería. University of Costa Rica. Vol. 8, No. 1, 1999

Tests using Strain Gages. Journal: Ingeniería. University of Costa Rica. Vol. 7, No.2, 1998

Linear Motors. Journal: Ingeniería. University of Costa Rica. Vol. 7, No.2, 1998

Material Handling Technician. Report of research project to determine the profile of the material handling technician needed in Costa Rica. National Institute for Learning (INA). 1996.

Laboratory Manual. Guidelines and experiments for the ME-0303 Instrumentation course. University of Costa Rica, Mechanical Engineering Department, 1996

Robotics: Positions and Reference Frames. Journal: Ingeniería. University of Costa Rica. Vol. 5, No.2, 1995

A Variable-Speed Ground-Source Heat Pump. Journal: Ingeniería. University of Costa Rica. Volume 4, No. 2, 1994

ATTENDED SEMINARS

Computerized Numerical Control I.
National Institute for Learning (INA), Costa Rica. September 6-10, 1999

International Seminar: Metrology in the New Century.
OEA, ONNUM. Heredia, Costa Rica. September 21, 1998

Paper Presentation: Linear Motors
First Meetings of Automation of Manufacturing Processes.
Ibero-American Program of Science and Technology for Development.
Santa Cruz de la Sierra, Bolivia. July 13-17, 1998

First Ibero-American Meetings of Robotics.
Program of Science and Technology for Development.
Cartagena, Colombia. April 14-18, 1997

Second Central American Meetings of Automation and Computer Science.
Ochomogo, Costa Rica, FUNAC-UCR. September 2-6, 1996

Second Ibero-American Meetings of Automation and Computer Science.
Program of Science and Technology for Development.
Santa Cruz de la Sierra, Bolivia. July 22-26, 1996

First Central American Meetings of Automation and Computer Science
Program of Science and Technology for Development.
UCR – ITCR. September 19-30, 1994

HONORS:

Scholarship from AID (Agency for International Development) to study in a university in the USA, 1989 – 1991
Mechanical Engineering Department Outstanding Junior, UA, 1991
Magna cum laude, The University of Alabama, 1992

RESEARCH AND CONSULTING PROJECTS

Analysis, Reprogramming, and Update of Data Acquisition Systems for a Food Drying System. Research Center of Food Technology. CITA-UCR. February 2000.

Design and Implementation of a Facility to Apply Black Oxide Treatment to Steel Gears. Transmission Center, CETRANSA. June and July 1999.

Installation of Strain Gages and Measurement of Strain on Bus Structures. MAUCO. Young An. March 1999 and July 1999.

Diagnosis and Retrofitting of a Testing Machine for Tension and Compression Applications. Design and Implementation of PID to Control Load Rate. Costa Rican Institute of Electricity (ICE), Geo-Technical Laboratory. May 1998-February 1999.

Diagnosis and Reparation of Electro-Polishing Cell. National Aluminum Company, ALUNASA. July 1998.

Analysis and Measurement of Temperatures in Oven that Bakes Macadamia. Macadamia Miravalles. June 1998.

Diagnosis and Reparation of 100-Ton-Capacity Load Cell. Costa Rican Institute of Electricity (ICE), Geo-technical Laboratory. May 1998.

Diagnosis and Proposal to Update a Tensile Machine for Testing Soils. Costa Rican Institute of Electricity (ICE), Geo-technical Laboratory. February 1998.

Installation of Strain Gages on Turbine Axle. National Company of Power and Electricity (CNFL), Hydroelectric Project "Daniel Gutiérrez". November 1997.

Preparation and Writing Patent Applications. Transmission Center, CETRANSA. November 1997- October 1998.

Manometer Calibrations. Saret. September 1997.

Study of Gradeability for Trucks. Autocamiones de Costa Rica. AUTOCORI. June 1997.

Evaluation of Patent Applications "Locking Apparatus and Security System for Cars". Assignee: Mul-T-Lock. May 1997.

NORMAN DOUGLAS WALK

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dwalk1316@hotmail.com

OBJECTIVE

To obtain an internship in the field, Mechanical Engineering, and have real life experience in the career of a professional Mechanical Engineer.

EDUCATION

Bachelor of Science: Mechanical Engineering
The University of Alabama, Tuscaloosa, Alabama
Expected Graduation: May 2005
Cumulative GPA: 2.667/4.00

Advanced Academics Diploma
Fairfield High School, Fairfield, Alabama
Graduated: May 2000
Cumulative GPA: 3.33/4.00

EXPERIENCE

Office Assistant, Summer 2002
Shank's Service Center, Birmingham, Alabama

- Customer Service
- Assisted mechanics with brake jobs, water pumps, and power windows.
- Cashier

Assistant Supervisor, Seasonal (1999-01)
Visionland Theme Park, Bessemer, Alabama

- Train others on safety procedures for the rides and the surrounding area.
- Assisted with schedule coordination
- Rides operator

COMPUTER

Microsoft Word, Excel, PowerPoint, Windows 95/98/2000/ME/XP, Internet, Clie'

HONORS

Residence Hall Association, Society of Automotive Engineering, Process of becoming a member of ASME, National Honor Society, National Beta Club

REFERENCE

Available upon request

DANIEL D. WANG

9 Sunset Blvd
Houston, TX 77005
713-348-1308
Cellphone: 626-353-6387
daneel@rice.edu

OBJECTIVE

to obtain a co-op or summer internship position in mechanical engineering

EDUCATION

Rice University, Houston TX
B.S in Mechanical Engineering expected May 2005. GPA 3.57/4.0

SKILLS

Computer: Solid Works, COSMOSWorks, Matlab, IDEAS, TK Solver, Mathematica, C++, Microsoft Excel, Power Point, Word

Language: Proficient in Mandarin Chinese, marginal in Spanish

Misc: arc welding, oxy-acetylene welding, soldering, some machining, guitar

EXPERIENCE

Rice University
Rice LEGOLAB Robot Competition, August 2003-Present
Designed from scratch a robot out of Legos Technic pieces, DC motors, sensors, actuators, motherboard to compete in competition of picking up foam blocks. Soldered everything onto motherboard, including resistors, capacitors, DIP switches, LCD screen, microprocessor, etc. Designed gearbox for transmission, programmed instructions to make robot "self-sufficient"

CAD Lock Design, August 2003- Present
Evaluated existing lap-top computer lock patents using Solid Works and COSMOS Works. Currently in the process of performing FEA analysis and analyzing stress plots. Will work on re-design

NSF-REU - University of New Mexico, Albuquerque, New Mexico
Civil Engineering Intern, Summer 2002
Student in the National Science Foundation Research Experience for Undergraduates program. Researched the effects of soil and water chemistry on vegetation along the Middle Rio Grande. Collected, compiled, and analyzed field data and helped develop a model relating water chemistry, vegetation type, and evapotranspiration.

Kaplan
Teacher, Summer 2003-current
Assembled lesson plans, reviewed coursed material, fostered good learning environment, taught SAT I.

ACTIVITIES

Society of Women Engineers, Chapter Vice President, National Member
Engineers Without Borders
Int'l Projects, Training Chapter Committee, National Member
Church Worship Team Leader, Shuttle Driver, Sunday-School Teacher, Bible Study Leader
Rice University Art Gallery Construction Volunteer
Guitar, Volleyball, Tennis

HONORS

Herbert Allen Scholarship, National Merit Finalist, National AP

Brian Scott Weiss

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Secondary Phone: (205) 763-2205
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Education

Master of Business Administration
The University of Alabama, Tuscaloosa, AL, May 2002
GPA: 3.50/4.0

Bachelor of Science in Mechanical Engineering
The University of Alabama, Tuscaloosa, AL, May 2000
Major GPA: 3.15/4.0
Passed Fundamentals of Engineering Exam, October 1999

Experience

Jul 2002-Present **Southern Research Institute, Project Engineer**
Materials Research, Birmingham, AL

- Analysis of specimens from various suppliers to evaluate their potential for military aerospace applications.
- Development of a materials information system to automate data analysis and organize compiled information for timely access by stakeholders.

Lithonia Lighting Group, Graduate Intern
Jun-Aug 2001 Information Management Services, Conyers, GA

- Developed business continuity plan for the Network Operations Center to quickly regain processing abilities in the event of a disruption to business.
- Constructed scripts for PC troubleshooting and automation of software installation.

Harley-Davidson Motor Company, Graduate Co-op
Jun-Aug 2000 Research and Development, Talladega, AL

- Managed experiments with special tests riders to obtain duty cycle correlation data for duty cycle correlation analysis.
- Analyzed duty cycle correlation data from current test courses in order to aid in the development of more efficient duty cycles.
- Co-developed computer code to generate test rider reports from Solid State Vehicle Recorder data to allow test analysts at site location and headquarters to have access to test results.

BellSouth Telecommunications, Inc., Undergraduate Co-op
Aug-Dec 1998 District Office Staff, Birmingham, AL

- Developed computer code to generate technician efficiency analysis reports for each District in the Alabama/Mississippi Region that were published on the Internet daily. Constructed a practice on the use of the programs.
- Assisted the Digital Loop Carrier Group and other affected organizations with the analysis and correction of LiteSpan 2000 Fiber Optic System records.

Jan-May 1998 Work Management Center, Birmingham, AL

- Analyzed job load in all Wire Centers in the Birmingham District.
- Coordinated meetings with stakeholders to discuss and plan corrections to be made to problems with the MAPPER automated technician dispatch system.
- Revised Allocation Area and District Allocation Area tables in the MAPPER system.
- Conducted follow-up meetings to discuss the effectiveness of the implemented revisions.

May-Aug 1997 Outside Plant Engineering, Gadsden, AL

- Assisted Outside Plant Engineers and Project Managers in the completion of construction drawings through the use of CAD drafting, obtaining field notes, and corresponding with other utilities.

Computer Skills

Software Packages: Microsoft Office (Word, Excel, PowerPoint, Access, Project), Visio, Oracle, AutoCAD, Microstation, BST.CAD
Languages: C++, Visual Basic, SQL, ASP, HTML
Operating Systems: Windows, UNIX, Linux, DOS

Activities

Vice-President, University of Alabama Chapter of the Society of Automotive Engineers, 1999-2000
Member, Society of Automotive Engineers, 1996-Present
Member, Society of Mechanical Engineers, 1996-Present

ANTONIO WHITE
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Education University of Alabama, Tuscaloosa, AL
Bachelor of Science in Mechanical Engineering
Expected graduation 5/03, GPA: 2.5/4.0

ME Coursework ME 407 Heating Ventilation Air-Conditioning
ME 491 Special Problems

Design Projects Built basketball retriever to assist basketball players in improving jump shot or free throws without depending on someone else to retrieve ball after each shot.

Senior Design I / Fall 2002 – Design and build a device for a spina bifida client to assist in lifting him/her from floor to wheelchair and floor to bath tub.

Computer Skills Autoad , Matlab, Microsoft Excel, Microsoft Powerpoint, Microsoft Word, Windows 98

Employment S & T Carwash- Dixon Mills, AL
May 1997 - June 2001
Car washer, car waxer, car drier, car vacuumer and cashier and working with customers.

McDonald's - Thomasville, AL
August 1995 to June 1997
Supervised cooks, served customers and made sure there was a clean eating area

Activities President, Paty Hall Council
American Society of Mechanical Engineering, Sports Chairmain
National Society of Black Engineers
University of Alabama Football Team
Bama Psi Phi
Eagle Scout (1997)
Freshman Honor Society - University of Alabama
Dean's List – University of Alabama (1998)

Joshua G. White

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Phone: (256) 772-1357
jgwhite33@hotmail.com

Objective:

A position related to the mechanical engineering field where I can utilize and further my skills learned in college and through previous work experience.

Experience:

Intergraph Corporation, Huntsville, AL, 7/10/2000 - Present

- Associate Support Engineer – Provide onsite mechanical software support at Marshall Space Flight Center Huntsville, AL.
- Aid in design and modeling of complex piece parts and testing fixtures.
- Designed adjustable mounting fixture for a digital scanner to read surface deflections of Space Shuttle Solid Rocket Booster.
- Direct seminar/work sessions for Unigraphics V16-V18, IMAN, UG/Structures, Solid Edge V8-V10, and ProductVision.
- Furnish technical expertise in software functionality.
- Provide hands-on support for advance features in Unigraphics and Solid Edge modeling packages.
- Analyze customer problems by addressing software bugs and relaying their concerns to the software developers.
- Supply expertise in translating between CAD packages through STEP, IGES, DXF and other neutral formats.
- Provide technical support for integration between IMAN Product Data Management System and CAD modeling packages.
- Create 3D animations of complex assemblies with ProductVision.
- Produce output from graphics applications to aid presentations, videos, and drawings.

Southern Research Institute, Birmingham, AL, 5/1997 - 5/1998

- Co-op – Provided support to Project Engineers.
- Designed semi-automatic dead-bolt locking system for pressure vessel door.
- Modified Thermal Expansion testing facility, with data acquisition boards and Lab-Notebook Pro software.
- Operated high temperature thermal conductivity testing facility.
- Aided in preparation of technical reports.
- Reduced, digitized, and plotted material data.
- Upgraded computers, replacing computer hardware components.

White's Urethane Insulation Inc., Springville, AL 1993 - 1997

- Insulation Technician
- Aided in application of spray-applied Polyurethane insulation and various soundproofing materials.
- Rebuilt and refurbished proportioning pumps used for applying insulation.

Education:

The University of Alabama, Tuscaloosa, Alabama, B.S., Mechanical Engineering, completed August 1999

- Graduated with honors *cum laude* (GPA: 3.5/4.0) in Mechanical Engineering.
- Passed Fundamentals of Engineering exam in August 1998.
- Designed a Geothermal Heat Pump system for Brantwood Children's Home in Montgomery, AL, as senior design project.
- Completed graduate level Mechanical Engineering classes in Dynamics, Heat Transfer, Energy Conservation and Management, and Thermal Power Systems at the University of Alabama.

3D Modeling Courses

- Solid Edge Fundamentals V8
- Practical Applications of Unigraphics V16
- Design Applications Using Unigraphics V18
- UG/Scenario for Structures (finite element analysis using Unigraphics)

Computer Skill Sets:

Unigraphics V16 - V18 (2 years), UG/Manager (2 years), UG/Structures (1.5 years), Solid Edge V8 - V10 (2 years), IMAN (2 years), All Windows Programs (Excel, Word, etc.) (8 years), AutoCAD R14 (2 years), Lab-Notebook Pro (.5 year), Data – Acquisition Boards (.5 year), Fortran (.5 year), DOS batch programs (.5 year), Windows Scripting Language (.5 year)

Professional Associations:

ASME (American Society of Mechanical Engineers) member, Unigraphics Users Group member, Pi Tau Sigma (Honorary Mechanical Engineering Fraternity) member, Tau Beta Pi (Honorary Engineering Fraternity) member

Interest and Activities:

Golf, Basketball (Team Captain), Softball (Co Captain), Ultimate Frisbee, Scuba Diving, Snow Skiing, Wakeboarding, Dirt Bike Riding

References available upon request.

LORIE TYLER WHITE

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lorietyler@yahoo.com

Permanent Address
P.O. Box 125
Myrtlewood, AL 36763
(334) 295-0131

EDUCATION

Bachelor of Science Degree in Mechanical Engineering — The University of Alabama, Tuscaloosa, AL
Minor: General Business — Graduation Date: May 2003 — Cumulative GPA: 2.725/4.00 (B-)
Foundation Coalition Curriculum-Integrated Engineering Program (1997-1999)
Senior Design Projects: Spina Bifida Transition Device and Eaton Aerospace Pump Seal Test
Personally financed 100% of my college education through work, financial aid, and scholarships.

RELEVANT COURSEWORK

3-D AutoCAD	Biomedical Engineering	Accounting	Marketing	Economics
Safety Engineering	Engineering Statistics	Finance	Management	Public Speaking

CAREER RELATED WORK EXPERIENCE

Mechanical Engineering Co-op Student, Alternating Semesters, 5/99 - 12/00, LaFarge North America, Calera, AL
Had several design projects such as chute flop-gating system, silo ventilation system, and chemical lab robotic transportation system. Assisted contractors on plant improvement projects. Wrote purchase orders for parts and interacted with stock room manager. Organized and maintained company's plant drawing library. Designed and modified plant drawings using AutoCAD on daily basis. Conducted weekly safety meetings for maintenance department and attended daily meetings.

Mechanical Engineering Co-op Student, 5/98 - 8/98, Kimberly-Clark Corporation, New Milford, CT
Designed holding plate for conveying system in order to benefit conveyor line operators. Designed and modified drawings using AutoCAD on daily basis. Assisted plant engineer with conveyor line pulley system. Attended weekly maintenance meetings.

OTHER WORK EXPEREINCE

Resident Assistant, 1/01- Present, The Office of Residential Life, The University of Alabama, Tuscaloosa, AL
Provide personal assistance to residence hall students and their guests. Plan, design, and implement educational, social, and recreational programs designed to build community among residents. Perform on-call duties biweekly that include: twelve hour work shift, work front desk, perform hall rounds, check third key inventory, and write work orders for building problems.

Customer Service Representative (CSR) Supervisor, 5/03 – 8/03, The Office of Residential Life, Tuscaloosa, AL
Was responsible for 2 residence halls' front desks which encompasses 30 CSRs. Duties included the following: made weekly work schedules, handled disciplinary actions when necessary, answered on-call pages when there was a situation at the desk, and organized all paperwork turned in by CSRs.

Graduate Student Assistant, 8/03-Present, Engineering Career Services, The University of Alabama, Tuscaloosa, AL
Assist students and recruiters with every aspect of the online eRecruiting system, which includes: establishing accounts, helping with any problems that arise, training new recruiters and students on how to use the system, and posting jobs, as well as schedules to the system. Also help to review students' resumes and perform various clerical duties.

Student Assistant, 8/01- 5/03, Engineering Career Services, The University of Alabama, Tuscaloosa, AL
Assisted supervisor in greeting and helping students, staff, and recruiters. Updated and maintained company files. Assisted office staff with various responsibilities such as: record and disseminate job listings, data input, and various campus errands.

HONORS AND ACTIVITIES

American Society of Mechanical Engineers
- Vice President of Affairs (2 consecutive years)
- Community Service Committee Chair
- Recruiting Committee

Society of Women Engineers
- Fundraising Committee Chair

American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

Resident Assistant of the Month Award (3 months)
House III Resident Assistant of the Year Award
Residence Hall Association
Resident Assistant Association
University Honors Scholarship Recipient
Dean's List

COMPUTER SKILLS

Windows 95/98/00/XP	MS Word	MS PowerPoint	MS Access	MS Outlook	Maple	Minitab
Internet Explorer	MS Excel	MS Publisher	MS Works	AutoCAD	Matlab	DOS

REFERERENCES AVAIABLE UPON REQUEST

MORGAN WILBANKS

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wilba001@bama.ua.edu

Permanent Address:
507 Brookwood Drive
Athens, AL 35613
(256) 232-2417

Education: The University Alabama, Tuscaloosa, AL
Bachelor of Science: Mechanical Engineering
Expected Graduation: May 2004, GPA: 3.01/4.00; ME GPA: 3.17/4.00

Computer Skills: Microsoft Word, Excel, PowerPoint, Matlab, and AutoCAD

Experience: University of Alabama, Tuscaloosa, AL; September 2002 – December 2002

- Graded Homework for Foundation of Engineering I
- Corrected Tests for the Same Class

Elk Roofing Corporation, Tuscaloosa, AL; June 2002 – August 2002

- Worked on AutoCAD
- Wrote Expenditure Requests

Lake Ida Corner Market, Athens, AL; June – August 2001

- Waited on Customers
- Recorded daily sales using accounting methods

Re/Max Realty, Athens, AL; August 1999 – August 2000

- Provided correspondence between agents and customers
- Scheduled appointments and filed papers

Athens Elementary School Co-op Student, Athens, AL; August 1999 – May 2000

- Copied and filed papers
- Assisted school secretary

Activities and Honors:

University of Alabama

- Society of Women Engineers – Social Chairman
- ASME – December 2002 Member of the Month
- Phi Mu
- Athletic Hostess
- Panhellenic Judicial Board
- Donations Homecoming Committee
- Capstone Scholar Scholarship

Volunteer Work

- Engineering Day
- Children's Miracle Network
- VA Hospital
- RISE Center
- Greek Links
- Angel Tree

JEFFREY PAUL WRIGHT

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wrigh031@bama.ua.edu

Permanent Address:
2201 3rd Street N.W.
Carbon Hill, Al 35549
(205) 924-9275

OBJECTIVE

To obtain an engineering position in design with the opportunity to move into a management position.

EDUCATION

Bachelor of Science in Mechanical Engineering
Minor in Mathematics
The University of Alabama- Tuscaloosa, Alabama
Expected Graduation: May 2003
Cumulative GPA 3.0/4.0
Major GPA 3.19/4.0

Associate Degree in Education from Bevill State Community College, Jasper Center.

EXPERIENCE

Wright Land Surveying (part time) Carbon Hill, Alabama 1997-2000, Position-Crew Chief, Ran the transit in the field, lined up jobs, did courthouse land description research and performed drafting work for finished project maps, ran perculation tests and soil analysis.

Worked on design project to assist child with Spina Bifida to move from floor to wheelchair and floor to bathtub.

Worked on Mini Baja for SAE competition to be held in Utah

COMPUTER SKILLS

Microsoft Excel, Word, PowerPoint, Outlook Express,
Internet, FORTRAN, TDS Foresight, WordPerfect, AutoCAD 2000/AutoCAD 3D,
Autodesk Inventor 5, MATLAB, Labview

EXTRACURRICULAR ACTIVITIES

ASME (American Society of Mechanical Engineers) member since Fall 2001, ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers) member since Fall 2002, SAE (Society of Automotive Engineers) member since Fall 2002, Flag Football, Intramural Basketball, Visited nursing homes.

REFERENCES AVAILABLE UPON REQUEST

Serina Yang

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Wiltsie 201, 1999 Burdett Avenue
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(518) 276-3617

email: yangs@rpi.edu

Permanent Address
8 Noreen Road
Mansfield, MA 02048
(508) 261-9976

OBJECTIVE: To obtain full time employment that utilizes and furthers my skills in mechanical engineering.

EDUCATION:

Rensselaer Polytechnic Institute, Troy, NY
B.S. Mechanical Engineering/STS Dual Major, expected May 2004
Major GPA: 3.42/4.0 Overall GPA: 3.19/4.0

EXPERIENCE:

Texas Instruments, Attleboro, MA June – August 2003
- Researched environmental discharge laws and proper sampling procedures.
- Sampled pond sediment and fish species from prior discharges into pond under permit.
- Analyzed samples for levels of heavy metals using ICP machine.

YWCA, Troy, NY September – November 2002
- Designed, organized, and created database resource directory.
- Participated in Women's Economic Empowerment Series.

Linex International Corporation, Sharon, MA June 1998 – August 2002
- Designed company web page.
- Expanded company catalogue using Photoshop (writing/editing).
- Modeled fitness equipment using Solidworks application.
- Designed parts for fitness equipment.

Dinosaur Gifts (family owned retail business) 13 years

RELEVANT COURSEWORK:

Design Studio VI Spring 2003
- Designed a robotic arm that aids Arthritic patients with kitchen tasks and exercise.
- Wired a Nintendo power glove to an Armatron to display mapping input to output.

Design Studio III Fall 2001
- Explored the social aspects of design and information technology design; designed an interactive game to evoke a response from 3rd graders in Troy.

SKILLS:

Computer:
Applications: Solidworks, Microsoft Word, Microsoft Excel, Microsoft Powerpoint, Microsoft Access, Microsoft Frontpage, Microsoft Visual C++, Adobe Photoshop, Minitab, MatLab, EES
Platforms: Competent in use of Windows operating systems
Other: Fluent in Mandarin Chinese

ACTIVITIES/ INTERESTS:

Chinese American Students Association
National Member of Society of Women Engineers
Intramural Sports – Soccer, Floor Hockey, Volleyball

HONORS:

Dean's List at Rensselaer Polytechnic Institute
The Order of Omega – National Greek Honor Society

LEADERSHIP:

Rensselaer Student Orientation Advisor
Red and White Student-Alumni Connection
Rensselaer Union Business Operations Committee
Tutor for Advising and Learning Assistance Center: Thermal & Fluids, Strength of Materials
Mentor for the Women at Rensselaer Mentor Program
Alpha Phi Fraternity
- Director of Administration – Bylaws Committee Head
- Director of Formal Recruitment and Continuous Open Bidding
- Web Master

Rensselaer Panhellenic Council Sports Committee Head

DANIEL C. YU

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OBJECTIVE

To obtain a position as a professional in mechanical engineering design.

EDUCATION

Bachelor of Science: Mechanical Engineering
Minors: Computer Science and General Business
Degree obtained: August 2003
Cumulative GPA: 3.064 / 4.000
Passed Fundamentals of Engineering Exam: October 2002

EXPERIENCE

Engineering Coop, August 1998-present
Corus Tuscaloosa, Central Maintenance Department, Holt, AL
Worked with central maintenance team repairing and troubleshooting machinery and equipment. Created AutoCAD drawings of machine parts and buildings. Contacted vendors about purchasing labor and parts. Compiled weekly spreadsheet reports that tracked all production time delays in plant. Assisted with creation of several databases to catalog drawings, purchases, and delay times.

Supervisor, April 1996-January 2000
TCBY, Northport, AL
Supervised store opening and closing. Dealt with any problems that arose. Checked others' work. Trained new employees. Counted register drawers at shift change and made bank deposits up to $6,000. Served customers. Designed pies.

COMPUTER

AutoCAD, Windows 95-XP, FORTRAN, C++, Visual Basic, HTML, ANSYS, ATB, Matlab, I-DEAS, Microsoft Word, Excel, Access, Front Page, Power Point

ACTIVITIES

Dean's List
Student Tutor – Mathematics
American Society of Mechanical Engineers
Design Project: Transport device for children with spina bifida - Designed and constructed a small machine to move a four year old girl with spina bifida, from the bathroom floor into the bathtub and also from the floor into her wheel chair.
Design Project: Vibration reduction in a compound bow - Completed research and testing on one of Ben Pearson Archery's compound bows to see the effects of adding different vibration reducing methods to the bow. Also created a computer program that would allow the company to make changes to various spring and mass parameters of the bow and output an acceleration vs. time graph.

REFERENCES

Available upon request